Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

BUILDING RETURNS

In addition to the figures published last week, relative to building construction, five additional reports have been received from the Pacific Coast. The comparison with last year is much more unfavorable than conditions warrant, for last year the coast cities were building in anticipation of the exposition.

Western States

			First Three Months of Year	
	1915	1914	1915	1914
Los Angeles, Calif.	$1,124,356	$2,091,041	$2,545,413	$4,729,017
Portland, Ore.	503,755	882,965	1,188,185	1,933,095
San Diego, Calif.	81,590	262,686	435,080	780,869
San Francisco, Calif.	1,405,038	3,956,475	3,081,771	15,880,571
Seattle, Wash.	689,675	923,480	1,452,140	2,683,155
Totals of Building returns published, Apr. 8.	1,185,998	1,412,354	2,537,101	3,063,037
Totals	$4,990,412	$9,529,001	$11,239,690	$29,078,744

RAILWAYS

West Virginia—Baltimore & Ohio R.R. Co.—It is reported that this company contemplates the extension of its line into the Farmington section west of Fairmont, where the Consolidated Coal Co. will open new mines. F. L. Stuart, Baltimore, Md., is Ch. Engr.

West Virginia—Chesapeake & Ohio Ry.—This company contemplates the construction of a branch line from Beckley up Pine Creek to the coal fields. F. I. Cabell, Richmond, Va., is Ch. Engr.

West Virginia—Norfolk & Western Ry.—Arrangements are being made by this company to start work soon on the construction of a branch line from Williamson to the mines at Leckie. J. E. Crawford, Roanoke, Va., is Ch. Engr.

Alabama—St. Louis & San Francisco R.R.—Plans are being prepared by this company for an expenditure of $50,000 for the improvement of its lines from Birmingham, Ala., to Memphis, Tenn. F. G. Jonah, St. Louis, Mo., is Ch. Engr.

Kentucky—Baltimore & Ohio R.R Co.—This company is securing the right-of-way for the construction of its proposed 25-mile railway up Beaver Creek in Floyd County. F. L. Stuart, Baltimore, Md., is Ch. Engr.

Kentucky—Barbourville-Manchester R.R.—The citizens of Clay County have raised a bonus of $100,000 to aid this company in the construction of its proposed railway from Barbourville to the coal fields in Clay County.

Ohio—Chesapeake & Ohio Ry.—This company has received bids and will soon award the contract for the construction of an extension to its line to connect with the Norfolk & Western Ry. near Waverly, Ohio. F. I. Cabell, Richmond, Va., is Ch. Engr.

Oklahoma—Atchison, Topeka & Sante Fe Ry.—According to press reports surveys are being made by this company for the construction of a railway to connect Cushing, Tulsa and Drumright. F. M. Bisbee, Amarillo, Tex., is Ch. Engr. Western Lines.

Idaho—Lewiston, Nezperce & Eastern Ry.—This company has been incorporated to construct a railway from Lewiston to Nezperce, Idaho. A number of branch lines will also be built. Z. A. Johnson, Lewiston, is one of the incorporators.

Washington—Northern Pacific Ry.—Plans are being prepared by this company for the extension of its line from Toppenish, Wash., to the new town of Saluskin. A. R. Cook, Tacoma, Wash., is Prin. Asst. Engr.

Washington—Tacoma Eastern R.R.—According to press reports this company contemplates the construction of a railway from Morton, Wash., to connect with the line of the Onalaska Lumber Co. E. O. Reeder, Seattle, Wash., is Ch. Engr.

Alberta—Brule, Grand Prairie & Peace River R.R.—This company has applied for a charter to construct a railway from Brule Lake north to Grand Prairie, thence to a junction with the Pacific Great Eastern in the Peace River section; also to build a branch from Grand Prairie crossing the Peace River near Dunvegan, to a junction with the projected Pacific, Peace River & Athabasca at the Montagneuse River. The incorporators include D. R. McDonald, Alexandria, Ont.; C. L. Hervey, Montreal, Que.; T. A. Burgess, R. H. Pringle and L. Cote, Ottawa, Ont.

ELECTRIC RAILWAYS

Boston, Mass.—The Bay State St. Ry. Co. contemplates the extension of the Highland Circuit line over what is known as the Highland loop. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

New Britain, Conn.—Preliminary arrangements are being made by the Connecticut Co. for the extension of its lines in the northwestern section of the city. F. L. Beardsley, New Britain, is Supt.

Willimantic, Conn.—The Willimantic & Manchester St. Ry. Co. has been incorporated to construct an electric railway south of the tracks of the Central Vermont R.R. where connection may be made with the tracks of the Connecticut Co., thence through Pleasant St. and connecting streets to Columbia, thence extending through to the towns of Andover, Coventry, Bolton, and Manchester to a point in Manchester near Manchester Green where connections can be made with the tracks of the Connecticut Co. Among those interested are T. J. Spellacy and Joseph I. Kopelman, Hartford, and Edward M. Yeomans, Andover.

Buffalo, N. Y.—The City Council has granted a franchise to the International Ry. Co. to double-track its line on Ferry St. from Hampshire to Niagara St. J. C. Sheldon, Buffalo, is Pur. Agt.

Allentown, Penn.—The Lehigh Valley Transit Co. contemplates the reconstruction of its tracks on various streets. W. W. Wysor is Ch. Engr.

Blue Ball, Penn.—According to press reports Jacob Hartz, Blue Ball, is interested in the construction of an electric railway to connect Blue Ball, Elverson, Churchtown and Phoenixville, about 15 miles.

Washington, D. C.—The Washington & Maryland Ry. Co. has applied to the Public Utilities Commission for permission to construct an electric railway on Kansas Ave. and other streets in Washington. Paul Sleman, Colorado Bldg., Washington, is Secy.

Worthington, W. Va.—The Monongahela Valley Traction Co. contemplates the construction of an extension from Worthington to Farmington. S. B. Miller, Fairmont, is Ch. Engr.

Miami, Fla.—The Ft. Myers, Marco Bay & Miami Ry. Co. is making surveys for the construction of its proposed interurban railway to connect Ft. Myers, Naples, Marco Bay and Miami, about 50 miles. W. B. Clay, Arcadia, is Engr.

Lorain, Ohio—The Lorain St. Ry. Co. has applied to the City Council for a franchise to extend its lines in Lorain. L. K. Burge, Sandusky, is Gen. Supt.

✚**Sciotoville, Ohio**—The contract for building the extension between Sciotoville and Ironton has been awarded by the Ohio Valley Traction Co., Portsmouth, Ohio, to O. S. HORD, Maysville, Ky., and A. KEITHLY, Huntington, W. Va.

Chesterton, Ind.—The Gary & Interurban Ry. Co. plans an extension from Chesterton to Porter. C. W. Chase is Secy.

Aurora, Ill.—The Aurora & Mendota Electric Ry. Co. has applied to the City Council for a franchise to construct an electric railway in Aurora. This is part of a proposed line to connect Bristol, Plano, Sandwich, Somonauk, Leland, Earlville, Mendota and Princeton. Noted Nov. 26, 1914.

Duluth, Minn.—An extension from Tenth to 16th St. is contemplated by the Duluth St. Ry. Co. J. Carson is Ch. Engr.

Hutchinson, Kan.—The Hutchinson Interurban Ry. Co. plans to build an extension on Ave. F. James E. Humbert is Gen. Mgr.

Kalispell, Mont.—The Flathead Development Co. has applied for a franchise to construct an electric railway in Kalispell.

Marfa, Tex.—The construction of an electric interurban railway from Marfa to Ft. Davis, about 18 miles, is contemplated by B. Q. Musgraves and associates of Fort Worth.

Spokane, Wash.—The Big Bend Transit Electric Ry. Co. is preparing plans for the construction of an electric railway from Spokane along the Spokane River to its junction with the Columbia River.

Los Angeles, Calif.—The Pacific Electric Ry. Co. contemplates the extension of its line south of Los Angeles to Inglewood, Lawndale and Hawthorne Acres. J. McMillan, Los Angeles, is Gen. Mgr.

Redwood City, Calif.—The Council has approved the ordinance granting a sale and transfer to the Redwood City Harbor Co. of all the right-of-way, title and interest recently granted by the town to Edward F. Fitzpatrick for the construction of an electric railway. Noted Mar. 18.

Hamilton, Ont.—Plans are being considered by the Hamilton St. Ry. Co. for an extension in the southwestern section of Hamilton, and the renewal of the tracks on York St. C. K. Green is Supt. of Const.

LIGHT, HEAT AND POWER

✚**Lynn, Mass.**—(Official)—The Lynn Gas & Electric Co. has awarded the contract for the foundation of a screening plant and water tower to the MacARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, N. Y.

New London, Conn.—It is reported that the Connecticut College for Women will soon build a one-story power house. The estimated cost is $30,000. Noted July 23, 1914.

Holley, N. Y.—The citizens have voted to issue $5000 in bonds for the purpose of making improvements in the municipal electric-light system. It is stated that the system will be changed from 133 cycles to 60 cycles. C. H. Bartlett is Chn. of Light Comrs.

✚**New York, N. Y.**—(Borough of Bronx)—Bids were received Apr. 12 by the Department of Education for installing heating and ventilating apparatus and temperature regulation in the addition to Public School 12, Frisby Ave., between Benson Ave. and Overing St., Borough of Bronx, from: Leslie & Tracy, Inc., $11,883; D. J. Rice, $11,841; E. Rutzler Co., $12,054; Grimshaw & Sturges, $12,497; Wells & Newton, $12,923; James Curran Mfg. Co., $12,759; W. J. OLVANY, 177 Christopher St., New York, $11,572 (awarded contract); Blake & Williams, $12,692; Philp & Paul, $12,957. Noted Apr. 8.

✚**Yorktown Heights, N. Y.**—The Board of Managers of the New York State Training School for Boys has awarded the contract for the construction of a power plant for the school to CALLAHAN & PRESCOTT, Albany. Noted Jan. 7.

Bayonne, N. J.—It is reported that the Standard Oil Co., 26 Broadway, New York, is considering the installation of an electric power station at its Constable Hook plant.

Beavertown, Penn.—A special election will be held Apr. 17 to vote on the question of municipalizing the plant of the Beaver Electric Co.

Boyertown, Penn.—It is reported that the Boyertown Electric Co. contemplates extending its transmission lines to Gabelsville to supply electricity to that village. A. E. Groff is Supt.

✚Bristol, Penn.—William H. Grundy & Co., manufacturer of yarns, etc., has awarded contracts for the construction of a power plant as follows: ROBERT LEDERLE, Philadelphia, for steel work; TRUSSED CONCRETE STEEL CO., Philadelphia, for steel sash; H. R. HEINICKE, INC., Philadelphia, for the chimney.

Harmony, Penn.—Chester & Fleming, Engr., Pittsburgh, Penn., has been commissioned by the Pittsburgh, Harmony & New Castle Ry. Co. to make surveys for two impounding dams on Conoquenessing Creek. S. H. Waddell, Diamond Bank Bldg., Pittsburgh, is Secy., Treas. and Pur. Agt. for the Pittsburgh, Harmony and New Castle Ry. Co.

New Castle, Penn.—The Mahoning & Shenango Ry. & Light Co., Youngstown, Ohio, plans to build a three-story, combination passenger and freight station, and electric substation on Washington St., New Castle. The estimated cost is $65,000. R. P. Stevens, Youngstown, is Pres. of the company.

Wilkes-Barre, Penn.—It is reported that the Keystone Collieries near Wilkes-Barre, will be equipped throughout with electrically operated machinery. Locomotives will take the place of mules, and electrical equipment will replace steam-driven machinery in the breakers.

Sprigg, W. Va.—Press reports state that the Tug River Power Co., Gary, W. Va., will build an electric-power plant at Sprigg. It will be of brick and reinforced concrete. The estimated cost is $30,000.

Union, W. Va.—The Town Council has granted a 50-year franchise to E. H. Butts, White Sulphur Springs, W. Va., to construct and operate an electric-light plant in Union. It is reported that energy to operate the plant will be obtained from the Virginia Western Electric Co., Clifton Forge, Va.

✚Great Falls, S. C.—The Southern Power Co., Charlotte, N. C., has awarded the contract for the construction of a hydro-electric plant at Fishing Creek, three miles above Great Falls, to the HARDAWAY CONTRACTING CO., Columbus, Ga. The contract calls for a development of 30,000 hp., and it is expected that the plant will be in operation by Sept. 1, 1916. Charles I. Burkholder, Charlotte, is Mgr. of the Southern Power Co.

Winnsboro, S. C.—See item under "Water Supply-Irrigation."

South Jacksonville, Fla.—(Official)—Bids will be received until 3 p.m., Apr. 19, by the Board of Bond Trustees for a four-valve or uniflow engine for direct connection to a 125-kw., a 150-kw. or a 175-kw. generator with exciter and switchboard; a 60-hp. motor; one set gears and one feed pump. Harry Botts is Chn. of Bd. The J. B. McCrary Co., Third National Bank Bldg., Atlanta, Ga., is Engr.

✚Cleveland, Ohio—The contract for the construction of a substation at East 79th St. and Woodland Ave., for the municipal electric-light system has been awarded to the CLEVELAND FIREPROOF CONSTRUCTION CO., 650 Rockefeller Bldg., Cleveland, at $24,000. Noted Mar. 25.

Mansfield, Ohio—Bids will be received until Apr. 23 by Orra Hursh, Dir. Pub. Ser., for lighting the streets of the city with electricity for a period of ten years. H. Whitford Jones, 1303 Citizens' Bldg., Toledo, is Consult. Engr.

Norwalk, Ohio—Bonds for $120,000 have been sold, the proceeds of which will be used for the construction of a municipal electric-light plant. It is reported that work will be started at once. Noted Feb. 5, May 21 and Sept. 24, 1914.

Youngstown, Ohio—Press reports state that the Republic Iron & Steel Co. will soon begin the construction of a new boiler plant to replace the present equipment of the Brown-Bonnell and Bessemer works. Automatic stokers and coal handling apparatus will be installed in the new plant. The cost is estimated at $300,000.

Blissfield, Mich.—The Electric Light Commission plans to build an addition to the municipal electric-light plant, and to purchase a new switchboard for a two-unit plant. Twenty-four hour service will be established. Ray H. Ellis is Supt. of the plant.

Stronghurst, Ill.—It is reported that M. F. T. Schierbaum, owner of the Stronghurst electric-light plant, will soon install new equipment including a 65-hp. Muenzel gas engine and one 75-hp. Muenzel suction gas producer; also one 45-kw. 60-cycle, three-phase, 2300-volt generator.

✚Duluth, Minn.—The Board of Education has awarded the contract for heating equipment for the new Lincoln Junior High School to the AMERICAN HEATING CO. at $21,250. The contract for the electrical work was awarded to F. O. PETERSON, Duluth, at $4112.

McCracken, Kan.—It is reported that an electric-light plant will soon be installed in McCracken. Energy to operate the system will be obtained from the municipal plant at La Crosse.

Grant, Neb.—See item under "Water Supply—Irrigation."

Omaha, Neb.—The Omaha Ry. & Light Co. has been granted authority by the State Railway Commission to issue $130,000 in bonds and stock, the proceeds of which will be used for constructing new transmission lines and other improvements.

Clarksburg, Mo.—The Clarksburg Light & Power Co. contemplates the installation of an electric-lighting system to cost about $4000. About seven miles of transmission line will be built. Electricity will probably be obtained from the municipal plant at Tipton, Mo. G. P. Wilson, 324 Mifflin Ave., Wilkinsburg, Penn., is interested.

Urich, Mo.—It is reported that plans are being considered for the construction of a municipal electric-light plant in Urich. The estimated cost is $5000. H. Busse, Urich, is interested.

Luling, Tex.—It is reported that the Texas Power & Light Co., is negotiating with the City Council with a view to establishing an electric-light plant in Luling.

Post, Tex.—It is reported that the Post Power Co. will soon install an electric-lighting system in the town. H. W. Fairbanks is Vice-Pres., Mgr. and Cont. Agt.

Stillwater, Okla.—At an election to be held May 4 the citizens will vote on the question of granting a franchise to the Stillwater-Pawnee Gas Co. for the installation of a natural gas distributing system.

La Junta, Colo.—At the recent election, the citizens voted in favor of issuing $75,000 in bonds, the proceeds of which will be used for the construction of a municipal electric-light plant. Noted Dec. 17 and 31.

Loveland, Colo.—At the election on Apr. 6 the citizens voted in favor of a bond issue of $78,000 for the purpose of establishing a municipal electric-light plant. Noted Mar. 11.

Cathlamet, Wash.—Application has been made to the City Council by C. H. Reeves, Jefferson, Ore., for a franchise to install and operate an electric-light plant for a period of 10 years. At the expiration of that time, the city is to be given the privilege of purchasing the plant.

Seattle, Wash.—Bids will be received until 1:30 p.m., Apr. 21, by C. E. Remsberg, Secy. of the Seattle Port Comn., for the installation of an electric-light and power plant in the fruit storage building of the East Waterway Terminal Improvement.

Highgrove, Calif.—It is reported that the generating station of the Pacific Light & Power Corporation, Los Angeles, was destroyed by fire Mar. 28. The loss is estimated at $10,000. E. R. Davis, Los Angeles, is Gen. Mgr. of the company.

Santa Barbara, Calif.—The Santa Barbara Gas & Electric Co. plans to rebuild and enlarge its gas plant. A new generator and compressors will be installed. John T. Huntington is Mgr. and Cont. Agt.

Techachapi, Calif.—It is reported that the City Trustees plan to install a municipal electric-light system to cost about $4500.

Visalia, Calif.—The Mt. Whitney Power & Electric Co., Visalia, has been granted authority by the State Railroad Commission to issue $238,000 in bonds, the proceeds to be used for additions and improvements to its system. Fred G. Hamilton, Visalia, is Supt.

Brantford, Ont.—Bids will be asked soon for the installation of steam heating, plumbing and ventilating equipment in the Central School, Sheridan and George St. The estimated cost is $15,000. The Canadian Domestic Engineering Co., Ltd., 47 King St. W., Toronto, Ont., is Engr.

BRIDGES

St. Johnsbury, Vt.—Press reports state that the Town of St. Johnsbury has voted to pay 25% toward the cost of a new bridge over the Passumpsic River to replace the one carried away by the February flood. The state will pay 25%, and the Boston & Maine R.R. the remainder of the expense. The cost is estimated at $32,000. P. E. May is City Clk.

✚Lawrence, Mass.—The Lawrence Bridge Commission has awarded the contract for 15,000 bbl. of cement to JOHN J. EVANS, at $1.59 per bbl.

✚Mansfield, Mass.—The Board of Selectmen has awarded the contract for the construction of the Spring St. Bridge to POWERS BROS., Brockton. It will be of reinforced concrete.

★Northampton, Mass.—(Official)—Bids will be received until noon, May 4, by the Commissioners of Hampshire County, Court House, Northampton, for reconstructing two piers and repairing the superstructure of the Connecticut River Bridge between Northampton and Hadley. J. R. Worcester & Co., 79 Milk St., Boston, is Engr.-in-Charge. Frank A. Brooks is Chn. of County Comrs. Noted Dec. 18, 1913; Jan. 7, Feb. 18 and Mar. 11, 1915.

New Haven, Conn.—(Official)—We are advised by F. L. Ford, City Engr., that bids for the proposed Tomlinson Bridge over the Quinnipiac River in New Haven will not be asked before midsummer or early fall, and possibly not until the spring of 1916. The estimated cost is $400,000. Noted Apr. 1.

Canton, N. Y.—(Official)—Bids will be received until 2 p.m., May 5, by H. M. Barber, Clk. of the Town of Canton, for the construction of a concrete-steel arch over the Grasse River in the Village of Canton. The Concrete-Steel Engineering Co., Park Row Bldg., New York, N. Y., is Engr. Ceylon G. Chaney is Town Supvr.

Syracuse, N. Y.—It is reported that the City Council has passed an ordinance for a $12,000 bond issue for the purpose of building a new bridge over Onondaga Creek at West Taylor St. to replace the present structure which has been condemned. W. T. Wooley is City Engr.

Lambertville, N. J.—The Board of Chosen Freeholders of Hunterdon County, Flemington, will build a new bridge over Swan Creek on South Union St., Lambertville. Grant Davis, County Engr., will prepare plans and supervise the construction of the bridge. Noted Mar. 18.

Newark, N. J.—See item under "Miscellaneous."

New Brunswick, N. J.—Bids will be received until Apr. 19 by the Board of Chosen Freeholders of Middlesex County for the construction of a concrete slab bridge over Green Brook at Madison Ave., Dunellen. Plans were prepared by Alvin B. Fox, County Engr., Perth Amboy. The bridge will be built jointly by Middlesex and Somerset Counties.

✚Somerville, N. J.—(Official)—The Board of Chosen Freeholders of Somerset County has awarded the contract for the construction of five county bridges to BURKE & BONHAM, Plainfield, at $11,448. J. Doughty, Jr., is County Engr. Noted Mar. 18.

Marcus Hook, Penn.—(Official)—Bids will be received until 10 a.m., May 3, by the Commissioners of Delaware County, Media, for a reinforced-concrete bridge on the Post Rd. over Hook Creek at Marcus Hook. John Griffin, Media, is Clk. of Comrs. Noted Apr. 8.

★**Media, Penn.**—(Official)—Bids will be received until 10 a.m., May 3, by the Commissioners of Delaware County for the construction of a bridge over Ridley Creek on the line of Baltimore Pike between Middleton and Upper Providence Townships. Orion L. Davis is County Controller.

Norristown, Penn.—The Commissioners of Montgomery County have decided to build a concrete bridge over Stony Creek at Stanbridge St., Norristown. The estimated cost is $30,000.

Philadelphia, Penn.—(Official)—We are advised by Jonathan Jones, Asst. Bridge Engr., Bureau of Surveys, that ordinances have been passed for the following bridges, and that bids for their construction will soon be asked: Bridge at Fifth St. over North Pennsylvania R.R., 70 ft. wide, estimated cost, $70,000; Diamond St. over Connecting Ry., 60 ft. wide, estimated cost, $75,000; Cambria and A St. over Richmond Bridge and Philadelphia & Reading Ry., 52 ft. wide, estimated cost, $62,000; Third St. under Philadelphia, Newtown & New York R.R., estimated cost, $32,000; Holme Ave. over Pennypack Creek, two 50-ft. and one 80-ft. spans, estimated cost, $80,000; 58th St. over Baltimore Central R.R., 60 ft. long, 30 ft. wide, estimated cost, $18,000; Fisher Ave., under North Pennsylvania R.R., estimated cost, $32,000; Whitby Ave., over Baltimore Central R.R., estimated cost, $42,000; Sherwood Ave. over Indian Run, 20 ft. long, 56 ft. wide, estimated cost, $30,000.

Pittsburgh, Penn.—(Official)—Bids will be received until noon, Apr. 23, by R. J. Cunningham, Controller of Allegheny County, for creosoted wood block floors on a number of county bridges. J. G. Chalfant, Court House, Pittsburgh, is County Engr.

Suffolk, Va.—(Official)—Bids will be received until noon, Apr. 22, by the Clerk of the Circuit Court of Nansemond County for the construction of a bridge over the Nansemond River near Suffolk. It will have a 105-ft. draw span and two 19-ft. approaches.

Ranger, W. Va.—(Official)—Bids will be received until 1 p.m., May 3, by the Lincoln County Court, Hamlin, for the construction of a steel highway bridge over the Guyandotte River at Ranger. It will have one 192-, one 82- and one 42-ft. span with a 16-ft. roadway. About 600 cu.yd. concrete masonry will be required. A. C. Parsons is Pres. of the Lincoln County Court. Oliver & Maupin, Huntington, W. Va., is Consult. Engr. Noted Apr. 1.

Savannah, Ga.—It is reported that William B. Stilwell and associates, of the East Georgia Ry. Co. plan to construct a 600-ft. bridge across the Cannochee River.

Wedowee, Ala.—(Official)—Bids will be received until noon, Apr. 30, by the Board of Commissioners of Randolph County for the construction of four steel bridges on the Wedowee and Roanoke State Highway. John T. Hefflin is Probate Judge of Randolph County. M. F. Ussery is Chn. of County Comrs.

Natchitoches, La.—(Official)—Bids will be received until 10 a.m., May 3, by G. H. Pierson, Pres. Parish Police Jury, for a steel bridge over the Cane River, about nine miles below Natchitoches. W. F. Cooper is Engr.

✚**Clinton, Tenn.**—Press reports state that the Bridge Committee of Anderson County has awarded the contract for three steel bridges across the Clinch River to the VINCENNES BRIDGE CO., Vincennes, Ind., at $50,700 for the three. They will be located at Clinton, Moore's Ferry and Edgemoor. Noted Jan. 21, Feb. 18 and Mar. 18.

Akron, Ohio—(Official)—Bids will be received until 11 a.m., Apr. 19, by the Board of Commissioners of Summit County for paving the concrete bridge on North Howard St. Extension between Akron and Cuyahoga Falls. C. L. Bower is Clk. of Comrs.

Akron, Ohio—(Official)—Bids will be received until 11 a.m., Apr. 28, by the Board of Commissioners of Summit County for the following bridge work: Rebuilding the Feeder Bridge on Manchester Rd.; superstructure and substructure of the Louis Young Bridge on Manchester Rd.; substructure and superstructure of the Peninsula Canal Bridge, Boston Township; C. L. Bower is County Audr.

✚**Eaton, Ohio**—(Official)—The Board of Commissioners of Preble County has awarded the contract for the construction of a concrete arch over Twin Creek on the Salem Rd., Harrison Township, to the ROCHESTER BRIDGE CO., Cincinnati, for the substructure and the BROOKVILLE BRIDGE CO., Brookville, Ohio, for the superstructure. The cost of the bridge complete will be $13,160. The contract for a bridge over Paint Creek in Somers Township was awarded to the BURK CONSTRUCTION CO., Newcastle, Ind. Noted Mar. 18.

Jefferson, Ohio—Bids will be received until May 3 by the Board of Commissioners of Ashtabula County for the construction of a bridge over Mill Race, Harpersfield Township. A. V. Hillyer is Clk. of County Comrs.

✚**Marion, Ohio**—The Board of Commissioners of Marion County has awarded the contract for the Retterer Bridge over the Whetstone River in Richland Township to the FRITZ-RUMER-COOK-GRANT CO., Columbus. Eleven other bids were received. Noted Mar. 18.

New Lexington, Ohio—(Official)—Bids will be received until 10 a.m., Apr. 19, by the Board of Commissioners of Perry County for the substructure of a bridge over Jonathan Creek at Glenford, Hopewell Township. Clyde M. Foraker is County Audr.

✚**Poast Town, Ohio**—The Commissioners of Butler County, Hamilton, have awarded the contract for the construction of a bridge over the Miami River, and repairs to the present abutments, to the OREGONIA BRIDGE CO., and the ARPP-SIMPSON CO. respectively. List of bidders noted Mar. 18.

Toledo, Ohio—(Official)—Bids will be received until 10 a.m., Apr. 30, by the Board of Commissioners of Lucas County for repairs on a number of bridges and the construction of three new culverts. Charles J. Sanzenbacher is County Audr.

Warren, Ohio—(Official)—Bids will be received until 1 p.m., Apr. 26, by the Board of Commissioners of Trumbull County for the construction of the substructure of the Johnston Bridge over Center Creek on the South Center Rd., Mesopotamia Township. W. R. Harrington is County Audr.

✚**Boonville, Ind.**—(Official)—The Commissioners of Warrick County have awarded the contract for the construction of three bridges to the EAST ST. LOUIS BRIDGE CO., East St. Louis, Ill., at $7000. Noted Mar. 18 and Apr. 1.

Converse, Ind.—(Official)—Bids will be received until noon, May 5, by the Board of Commissioners of Miami County, Peru, for the construction of a steel or concrete bridge at Converse. The estimated cost is $7000. Frank K. McElheny, Peru, is County Audr. Noted Apr. 1.

Muncie, Ind.—(Official)—Bids will be received until 10:30 a.m., Apr. 17, by the Board of Commissioners of Delaware County for the construction of four bridges, three in Salem Township and one in Township 20. Francis M. Williams is County Audr.

✚**Pendleton, Ind.**—The Board of Commissioners of Madison County, Anderson, has awarded the contract for the construction of a reinforced-concrete bridge over Fall Creek at Pendleton to FINLEY & CO., Noblesville, at $4174. Noted Mar. 18.

✚**Scottsburg, Ind.**—(Official)—The Commissioners of Scott County have awarded the contract for the construction of several bridges and culverts to FRANK CLARK, Scottsburg. There were four other bidders. Noted Mar. 25.

Jackson, Mich.—(Official)—We are advised by C. E. Chappell, City Mgr., that the time for receiving bids for the construction of the Mechanic St. Bridge has been extended from Apr. 6 to 7 p.m., Apr. 27. A. W. D. Hall is City Engr. Noted Mar. 4 and Apr. 1.

Bloomington, Ill.—(Official)—Bids will be received until 2:30 p.m., Apr. 17, by the County Superintendent of Highways, Court House, Bloomington, for the construction of Section 8 and 9 Drainage Bridge in West Township, and Section 14 Drainage Bridge in Empire Township. R. O. Edwards, Bellflower, is County Supt. of Highways.

✚**Galesburg, Ill.**—(Official)—The Highway Commission of Knox County has awarded the contract for the construction of seven reinforced-concrete bridges in Victoria, Chestnut and Orange Townships to CAPPERMORE & DEYO, at $5292. H. M. Butt is County Supt. of Highways.

Mt. Carroll, Ill.—(Official)—Bids will be received until 1 p.m., Apr. 17, by L. P. Scott, Supt. of Highways of Carroll County, for the construction of eight reinforced-concrete bridges and culverts in the county. The estimated total cost is $11,494.

Milwaukee, Wis.—It is reported that, at the election held Apr. 6, the citizens voted in favor of issuing $240,000 in bonds for the purpose of building a bridge over the Milwaukee River at North Ave. Plans are being prepared by J. C. Pinney, Supt. of Bridges, Dept. of Pub. Wks. F. G. Simmons is Comr. of Pub. Wks.

✚**Clinton, Iowa**—(Official)—The Board of Supervisors of Clinton County has awarded the contract for the construction of about 20 county bridges to JOHN R. KANE, Charlotte, Iowa, at $17,597. There were 19 other bids received. F. G. Hansen is County Audr. Noted Apr. 1.

✚**Marion, Iowa**—The Board of Supervisors of Linn County has awarded contracts for the construction of bridges and culverts as follows: ILLINOIS STEEL BRIDGE CO., $11,695; A. P. MUNSEN, $7870; MISSOURI CONSTRUCTION & BALLAST CO., $7230; JAMES WILEY, Marion, $3875; PERRY PAYNE, Marion, $2218.

✚**Mason City, Iowa**—The Board of Supervisors of Cerro Gordo County has awarded the contract for the construction of 19 concrete bridges to COLE BROS., Ames, at $19,273. There were 12 bidders for the work. It is reported that the contract has been sublet to WILLIAM HINKLE, Mason City. Noted Jan. 21 and Feb. 18.

✚**New Hampton, Iowa**—(Official)—The Board of Supervisors of Chickasaw County has awarded the contract for the construction of five steel-truss bridges to the PAN AMERICAN BRIDGE CO., Newcastle, Ind., at $13,000. P. E. McGinn is County Audr. Noted Mar. 11.

✚**Jackson, Minn.**—(Official)—The Commissioners of Jackson County have awarded contracts for bridges as follows: WHITEWATER BRIDGE CO., Whitewater, Wis., Bridges Nos. 1629, 1706, and a reinforced-concrete culvert at $2145, $1045 and $1095 respectively; WILLIAM O'SHEA & SONS, St. Paul, Bridge No. 1702, at $1244; GREVE & BOHMKE, Jackson, Bridge No. 1144, at $2784. P. D. McKellar is County Audr. Noted Apr. 1.

✚**Minneapolis, Minn.**—The City Council has awarded the contract for 1,000,000 ft. of lumber for the Third Ave. Bridge to the NORTHLAND PINE LUMBER CO., at $21,180. The contract for the steel for the bridge was awarded to the ILLINOIS STEEL CO., Chicago, Ill., at $8000.

Moorhead, Minn.—(Official)—Bids will be received until 11 a.m., Apr. 27, by A. O. Houglum, Audr. of Clay County, for the construction of State Bridges Nos. 1633 and 1657.

Red Wing, Minn.—(Official)—Bids will be received until 2 p.m., Apr. 21, by the Auditor of Goodhue County for the construction of a number of state bridges.

✚**McCook, Neb.**—The Commissioners of Redwillow County have awarded the contract for all county bridge work during the year to the STANDARD BRIDGE CO., Omaha. Noted Mar. 25.

✚**North Platte, Neb.**—The State Department, Lincoln, and the Board of Commissioners of Lincoln County have awarded the contract for the construction of a bridge over the Platte River at North Platte to the CANTON BRIDGE CO., Canton, Ohio, at $43,975. Noted July 23, Sept. 24 and Feb. 18.

✚**Rawlins, Wyo.**—The Board of Commissioners of Carbon County has awarded contracts for bridge construction as follows: LEVY CONSTRUCTION CO., Denver, Colo., at $4325, for a steel bridge over the Platte River at French; OMAHA STRUCTURAL STEEL CO., Omaha, Neb., at $3949, for bridge over Encampment Creek at Baggott Rocks; PETRY-MOULTON CO., Cheyenne, $2190, for bridge over Medicine Bow River, $1300 for bridge over Cow Creek, and $1440 for bridge over Spring Creek.

+★Billings, Mont.—The Board of Commissioners of Yellowstone County has awarded the contract for the construction of the Duck Creek Bridge to the SECURITY BRIDGE CO., Billings, at $31,950. Noted Oct. 15 and 29, Nov. 19, Dec. 17, Feb. 11 and Mar. 4.

Osceola, Ark.—See item under "Miscellaneous."

Hempstead, Tex.—It is reported that the Houston & Texas Central R.R. plans to construct a new steel bridge across the Brazos River near Hempstead. F. T. Jeans, Ennis, is Supt. of Bridges and Bldgs.

Chandler, Okla.—(Official)—All bids received Apr. 5 by the Commissioners of Lincoln County for the construction of three steel bridges across the main channel of the Deep Fork Drainage District were rejected. J. C. Pringey is County Clk. Noted Apr. 1.

Acme, N. M.—The Board of Commissioners of Chaves County, Roswell, has been petitioned to build a new bridge over the Pecos River near Acme. The estimated cost is $12,000.

Salt Lake City, Utah—(Official)—We are advised by W. D. Beers, State Engr., that the bills recently passed by the State Senate making appropriations amounting to $23,500 for the construction of three bridges, were all vetoed by the Governor. Noted Apr. 1.

Olympia, Wash.—Bids will be received until Apr. 19 by W. A. Hoage, City Clk., for the construction of a new concrete bridge to replace one recently destroyed. It will cost about $10,000. Noted Apr. 1.

Olympia, Wash.—Bids will be received until Apr. 26 by the Auditor of Thurston County for the construction of a concrete substructure and steel superstructure of a bridge over Perry Creek. The estimated cost is $11,500. W. H. Yeager, Jr., is County Engr. Noted Mar. 18.

Seattle, Wash.—It is reported that bids will be received until May 1 by the Board of Public Works for the construction of the drawbridge over the Duwamish Waterway at Eighth Ave., S. The estimated cost is $45,000. A. H. Dimock is City Engr. Noted Nov. 12 and Mar. 11.

+Pendleton, Ore.—The Commissioners of Umatilla County have awarded the contract for the construction of 11 small steel bridges to the SECURITY BRIDGE CO., Spokane, Wash., at $6510. The contract for a bridge over the Umatilla River just above Pendleton was awarded to the ILLINOIS STEEL BRIDGE CO., Spokane, at $8998. Ten bids were received for the work.

Needles, Calif.—(Official)—We are advised by J. A. Sourwine, County Surv. of San Bernardino County, San Bernardino, that plans for the proposed bridge across the Colorado River, near Needles, at Topock, Ariz., are being prepared. The main span will be a three-hinged steel arch, 592 ft. long, with a plate girder approach span 120 ft. long, at each end. The abutments will be reinforced-concrete pedestals set in solid rock. The preliminary estimate of the cost, including concrete, is $85,000. Of this amount, the states of Arizona and California, and the Federal Government will each pay $25,000. San Bernardino and Los Angeles Counties, Calif., have agreed to divide the cost in excess of $75,000. The plans are expected to be completed by May 1, and bids will be asked as soon as the Department of the Interior has approved the plans. Bids will be received by the Department of the Interior, Office of Indian Affairs, and contracts must be awarded before June 30, when the Federal appropriation will lapse. Noted Aug. 13, Sept. 10 and Mar. 18.

+London, Ont.—Contracts for the construction of a bridge over the River Thames on the Elgin Rd., Dorchester Township, have been awarded to the DOMINION STEEL CO., Toronto, at $3685, for the steel work, and RICHARD WALTHAM, Kerrwood, at $2900, for concrete work. The superstructure will have three spans of 75 ft. each.

+St. Boniface, Man.—It is reported that the contract for the construction of a Strauss bascule bridge over the Red River at Provencher Ave., connecting the cities of St. Boniface and Winnipeg, has been awarded to the MANITOBA BRIDGE & IRON WORKS, LTD., Winnipeg, at $253,824. Noted June 18 and Aug. 6, 1914.

WATER SUPPLY—IRRIGATION

Belchertown, Mass.—A bill is before the Legislature providing for the issuance of $50,000 in bonds, the proceeds of which will be used for the water supply.

+Boston, Mass.—Bids were received Apr. 2 for laying water mains in Harrison Ave., Perry, Washington and Worcester St. as follows: M. DeSISTO, at $9297 (awarded contract); James L. Pierce & Co., $10,284; Coleman Bros., $10,400; A. M. Cusack, $10,607; John Guarine, $11,074; John T. Shea, Jr., $11,279; Brune & Petitti, $11,395; John E. Lynch, $11,685; Charles J. Jacobs Co., $11,774; Anthony Baruffaldi, $11,890; M. Russo & Son Co., $12,140; Henry Spinach Contracting Co., $12,885; John A. Costello & Co., $13,582; James J. Coughlan Co., $14,650; Hugh Nawn Contracting Co., $15,040 and Joseph Long & Co., $20,256. Noted Mar. 25.

Cambridge, Mass.—(Official)—George A. Johnson, New York, N. Y., and 141 Milk St., Boston, has been retained by the city to prepare plans for the construction of a filtration plant. The total cost will be $300,000. Noted Mar. 25.

Batavia, N. Y.—Chester & Fleming, Pittsburgh, Penn., has been engaged, according to press reports, to make an investigation of the present water system with reference to the installation of a filtration plant.

Elmsford, N. Y.—Plans have been submitted to the Board of Trustees for the construction of a water system. An election will be held to vote on the question. J. E. Murray is Clk. Noted Mar. 25.

Gloucester, N. J.—An ordinance has been adopted by the City Council providing for the issuance of $26,000 in bonds, the proceeds of which will be used for the extension of the water system. Charles Blacksee is Mechanical and Supervising Engr. Noted Feb. 18.

+Washington, N. J.—The contract has been awarded to JOHN W. HELLER, Newark, at $9222, by the Washington Water Co. for constructing a 4,500,000-gal. reservoir.

+Barnesboro, Penn.—The contract has been awarded to P. C. AZZARA for constructing a 500,000-gal. concrete lined reservoir and for pipe to connect the reservoir with the water system. Charles E. Schlicher is Engr. Noted Oct. 29 and Mar. 25.

Erie, Penn.—(Official)—Chester & Fleming, Engr., Pittsburgh, has been retained by the city to prepare plans for the extension of the high service distribution system.

Harrisburg, Penn.—Bids will be received until Apr. 19 by the Superintendent of Public Safety, Room 10, Court House, for laying water mains in Sycamore, Carlisle and Agate St.

+Harrisburg, Penn.—The contract has been awarded to the STANDARD CAST IRON PIPE & FOUNDRY CO., Bristol, at $21.18 per ton for pipe and $0.02½ per lb. for specials for pipe and specials for the water department for the year Apr. 1, 1915 to Apr. 1, 1916. Harry F. Bowman is Supt. of Water Wks.

Mt. Gretna, Penn.—Plans have been prepared for the construction of a 125,000-gal. reservoir in the Pennsylvania State rifle range for the State of Pennsylvania.

+Reading, Penn.—The contract has been awarded by the Council to JAMES O'ROURKE, Seventh and Spring St., Reading, at $6550, for laying a 36-in. pipe line to the new Hegel Gehl reservoir. Pipe will be furnished by the city.

+Sharon, Penn.—The contract has been awarded, according to press reports, to BOOTH & FLINN, Pittsburgh, at $40,000, by the Sharon Water Works Co. for the installation of a filtration plant.

Hagerstown, Md.—The capital stock of the Washington County Water Co. has been increased from $320,000 to $870,000. A storage reservoir will be constructed on South Mountain and other improvements will be made. Noted Mar. 18.

+Indianhead, Md.—The contract for additional artesian water supply has been awarded to EDWARD CHRISTMAN, 403 East Main St., Massillon, Ohio, at $9890.

★Laurel, Md.—See item under "Sewers."

Richmond, Va.—E. E. Davis, Supt. of Water Wks., estimates that the extension of the water system in part of the annexed territory will cost $148,502. Charles E. Bolling is City Engr.

Columbia, S. C.—Press reports state that the citizens will vote June 8 on the question of issuing $300,000 in bonds, the proceeds of which will be used for the extension of the water system.

+Gaffney, S. C.—The contract has been awarded to J. H. CURRY, Gaffney, for the construction of a cement lined reservoir.

Manning, S. C.—Bids will be received until Apr. 20 by J. C. Sprott, Comr. Pub. Wks., for constructing a municipal water system. Extension of date from Apr. 13. Noted Mar. 18 and Apr. 1.

Winnsboro, S. C.—Bids will be received until Apr. 15 for the purchase of $80,000 in bonds, the proceeds of which will be used for the construction of water, sewer and electric-light systems. Noted Aug. 20 and Mar. 18.

Dublin, Ga.—An election will be held June 8 to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the improvement of the water system and electric-light plant.

Key West, Fla.—Bids will be received until Apr. 17 by J. R. Valdes, Chn., Water Wks. Com., for water mains, hydrants, valves and for making connections. Noted Apr. 1.

Laurel, Miss.—Bonds for $60,000 will be issued by the City Commissioners, the proceeds of which will be used for making extensions to the water and sewer systems. T. G. McCallum is Mayor.

Cleveland, Ohio—Bids will be received until noon, Apr. 22, by Charles F. Schultz, Comr. of Purchases and Supplies, for constructing the steel work for the two shafts for the Central Ave. river tunnel of the water department.

+Cleveland, Ohio—The contract has been awarded to F. R. JONES CO., 139 North Clark St., Chicago, Ill., by the city for excavation for the new Baldwin reservoir. Bids opened Apr. 2. Noted Mar. 25.

Marietta, Ohio—Chester & Fleming, Pittsburgh, Penn., has been retained by the Council to prepare plans for the construction of a reservoir on Jackson Hill, according to press reports.

Oxford, Ohio—Bids will be received until noon, Apr. 19, by the Board of Public Affairs for furnishing and installing two 72x16-ft. horizontal tube boilers with fittings and for 2000 ft. of 4-in. c.-i. pipe and 1750 ft. of 1-in. standard galvanized pipe.

+Sandusky, Ohio—(Official)—The contract has been awarded to A. A. THATCHER, Toledo, at $37,839, for constructing a 42-in. intake in Sandusky Bay. Other bids were: Lake Shore Construction Co., $39,083; American Construction Co., $48,138; Great Lakes Dredge & Dock Co., $45,636; J. H. Baer, $61,052 and Shirley-Sheldon Dredge Co., $43,384. E. S. Wagner is Clk. Noted Mar. 25.

Wellington, Ohio—According to press reports, the citizens contemplate spending $35,000 for the improvement of the water system.

+Bloomington, Ind.—The contract has been awarded to the WESTERN CAST IRON PIPE CO., Chicago, Ill., at $19,210, by the City Council for 828 tons of 12-in. water pipe.

Redkey, Ind.—A company has been incorporated with a capital of $25,000 by Oscar J. Current, George A. Harrop and C. C. Ayers, and will build a water system.

Ahmeek, Mich.—The citizens contemplate constructing a water system.

✚Fremont, Mich.—The contract has been awarded to the TRAVERSE CITY IRON CO., at $11,960, for constructing a water system.

Schoolcraft, Mich.—(Official)—Bids will be received until Apr. 27 by O. A. Fellows, Village Clk., for constructing a water system. Noted Mar. 18.

Eureka, Ill.—An election will be held Apr. 20 to vote on the question of issuing $17,000 in bonds, the proceeds of which will be used for making extensions to the water system.

Waverly, Iowa—The Council contemplates spending $25,000 for the extension of the water and electric-light systems.

Menomonee Falls, Wis.—(Official)—At a recent election the citizens defeated the bond issue for $20,000, the proceeds of which would have been used for the improvement of the water system. J. W. Cannon is City Clk. Noted Mar. 25.

✚Gilbert, Minn.—The contract has been awarded to the PITTSBURGH FILTER MFG. CO., Pittsburgh, Penn., at $25,785, for constructing a municipal filtration plant. Noted Jan. 14.

Minneapolis, Minn.—The Water Works Commission has authorized the construction of water mains in seven wards at an estimated cost of $47,897. About $500,000 will be spent for the improvement of the water system this year. William R. Young is Water Wks. Supt.

Watkins, Minn.—The citizens contemplate constructing a water system, the estimated cost of which is $10,000.

McPherson, Kan.—Bids will soon be received by A. Groesbeck for constructing a water system and a 400,000-gal. reservoir. H. A. Rowland is City Engr.

Newton, Kan.—According to press reports bids will soon be received for the construction of a water system. About nine miles of 16-in. pipe will be laid. F. E. Devlin, City Hall, is Engr.

Grant, Neb.—Bonds for $12,500 have been voted by the citizens, the proceeds of which will be used for the construction of a municipal water system and electric-light plant.

Ardmore, S. D.—An election will be held Apr. 20 to vote on the question of issuing bonds for $16,000, the proceeds of which will be used for the construction of a water system for domestic use and for irrigation. W. F. Fitzgerald is Clk.

Hitchcock, S. D.—The citizens contemplate issuing bonds, the proceeds of which will be used for the construction of a water system.

Sioux Falls, S. D.—An election will be held Apr. 20 to vote on the question of issuing $140,000 in bonds, the proceeds of which will be used for the extension of the water system. Noted Oct. 15 and 29, 1914, and Mar. 25, 1915.

Butte, Mont.—Bids have been submitted to the city for appraising the system of the Butte Water Co. as follows: Burns & McDonnell, Kansas City, $8500; Harper, MacDonald & Co., Butte, $9000; Standard Engineering Corporation, Helena, $8275; Gerharz, Jaqueth Engineering Co., Helena, $10,500 and A. K. Grimmer, New York, N. Y., $12,455.

★Lewistown, Mont.—(Official)—Bids will be received until May 10 by E. H. Holmboe, Secy., Winnett Irrigation Co., for metal flumes.

✚St. Louis, Mo.—The contract for laying pipe from Bissell's Point to the Ft. Bellefontaine School has been awarded by the Board of Public Service to JOHN F. McMAHON, at $10,306. Noted Mar. 18.

Springdale, Ark.—The construction of water and sewer systems will not be undertaken on account of the decision of the Supreme Court. F. E. Reed is City Recdr. Noted Mar. 11.

Columbus, Tex.—An election will be held to vote on the question of issuing $8000 in bonds, the proceeds of which will be used for making improvements to the water system.

✚Floydada, Tex.—The contract has been awarded to the N. S. SHERMAN MACHINE WORKS, Oklahoma, Okla., for pipe for making extensions to the water system.

Slaton, Tex.—According to press reports, the citizens contemplate constructing a water system at an estimated cost of $15,000.

Marshall, Okla.—(Official)—An election will soon be held to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used for the construction of a municipal water system and an electric-light system. The Benham Engineering Co., Oklahoma, has been retained as Engr.

Redrock, Okla.—Bids will be received about May 1 by the City Clerk for constructing a water system, the estimated cost of which is $22,000. The Benham Engineering Co., Oklahoma, is Engr. Noted Jan. 14 and Feb. 11.

Bonners Ferry, Idaho—Plans are being prepared for the improvement of the water system of the Bonner Water & Light Co.

Kellogg, Idaho—The Council has appointed a committee to investigate the advisability of constructing a water system, the estimated cost of which is $125,000. The water will be obtained from Big Creek. Noted Nov. 12.

Roberts, Idaho—An election will be held Apr. 24 to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the installation of a water system. Noted Feb. 4.

Kent, Wash.—(Official)—Bids will be received until Apr. 19 by L. E. Price, City Clk., for laying 1500 ft. of 12- and 16-in. steel pipe and 400 ft. of 12-in. wood pipe. Noted Mar. 25.

Odessa, Wash.—Bids will be received until Apr. 19 by W. M. Nevins, City Clk., for a pump, pipe, pump rods and a brass cylinder for the water system.

Spokane, Wash.—Plans are being prepared by Morton Macartney, City Engr., for extensions to the water system. The estimated cost is $13,000.

✚Sunnyside, Wash.—The contract has been awarded to the PACIFIC TANK & PIPE CO., at $11,345, for laying 4800 ft. of 46-in. pipe for the Outlook Irrigation District.

Florence, Ore.—An election will be held June 7 to vote on the question of issuing bonds for $100,000, the proceeds of which will be used for the construction of a water system.

Oceanside, Calif.—According to press reports an expenditure of $22,000 will be made for making improvements to the water system. Noted Oct. 29.

San Francisco, Calif.—The Board of Supervisors has appropriated $10,500 for the construction of a diversion dam in the Hetch Hetchy Valley and $40,000 for the construction of a diversion tunnel.

Sierra Madre, Calif.—The city contemplates laying a 4-in., 6-in. and 8-in. riveted steel pipe line about 7400 ft. in Santa Anita Cañon in connection with the water system. William F. Bixby, Mason Bldg., Los Angeles, is Engr.

Toronto, Ont.—The John Vehr Engineering Co. has applied to the City Architect for permission to construct additions to the filtration plant on Center Island. Noted Apr. 8.

SEWERS

Boston, Mass.—Bids were received Apr. 5 by the Department of Public Works for (a) sewerage work in Nikisch Ave., West Roxbury, and Richards St., Brighton, (b) sewerage work in Anawan Ave., West Roxbury Parkway, Pelton St., West Roxbury, and Mackin St., Brighton, as follows: W. L. Delan, (a) $1924, (b) $3493; John Guarine, (a) $1978, (b) $3930; James J. Conway, (a) $2222, (b) $3989; Frank Drinkwater, (a) $2283, (b) $3277; M. De Siste, (a) $2639; Antony Cefalo, (a) $2723; (b) $3666; Daddarie & Booth, (a) $2856, (b) $4378; John F. Lynch, (a) $3021, (b) $5521; R. Cartulle, (a) $3463; A. E. Daddarie, (b) $3461; Martine De Mattee Co., (b) $3864; Demenie Vazella, (b) $4016; Lewis Balbeni, (b) $4031. Noted Apr. 1.

Medfield, Mass.—Bids will be received until 2 p.m., Apr. 16, by the Board of Selectmen of Medfield for the construction of 100 ft. of 8-in. sewer in Main St., with manholes.

West Hartford, Conn.—The city will issue $10,000 in bonds, the proceeds of which will be used for the construction of a sewer system.

Albany, N. Y.—The city contemplates constructing sewers in Akin Ave., Ring, Second, Fifth, Ninth and Birch St. Frank R. Lanagan is City Engr.

Batavia, N. Y.—The city contemplates improving its sewer system.

Buffalo, N. Y.—(Official)—Bids were received Apr. 3 by F. G. Ward, Comr. Pub. Wks., for the construction of an 8-ft. brick sewer in Swan and Seneca St. as follows: Joseph F. Stabell Co., $110,639; William C. Culliton-William Franklin, $138,682; Buffalo Dredging Co., $172,100; Dark & Co., $178,000. Noted Apr. 1.

Buffalo, N. Y.—(Official)—The Fahning-Carey Contracting Co. submitted the lowest bids at $4994 and $22,249 for sewers in Calais St. and Fillmore Ave., respectively. Noted Apr. 1.

Huntington, N. Y.—(Official)—Plans have been approved by the State Department of Health for a sewer system and sewage-treatment works. Bids will be received about May 1. George W. Fuller, 170 Broadway, New York, N. Y., is Engr. Noted Dec. 17 and Jan. 14.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract has been awarded to PASQUELLE TOMASETTI, 1133 60th St., Brooklyn, at 86% of standard, for constructing sewers in 15th Ave. Noted Mar. 18 and Apr. 1.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for constructing sewers in East 27th St. has been awarded to FRANK MERINDINO, INC., 556 17th St., Brooklyn, at 70% of standard. Noted Mar. 18 and Apr. 1.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., Apr. 21, by L. H. Pounds, Borough Pres., for constructing sewers in East 32nd St. from Ave. I to Ave. J, in East 27th St. from Ave. N to Kings Highway, in 55th St. from 15th to 17th Ave., for constructing sewer basins on each side of Ocean Ave. from Ave. J to Ave. K and on the southeast corner of Albany Ave. and Eastern Parkway.

✚New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Apr. 9 by L. H. Pounds, Borough Pres., for constructing sewers in Tompkins Ave. from Greene Ave. to Fulton St., in Fulton St. from Tompkins Ave. to Brooklyn Ave., and in Brooklyn Ave. from Fulton St. to a point about 65 ft. south of Fulton St., as follows: LITCHFIELD CONSTRUCTION CO., 23 Flatbush Ave., Brooklyn, at $273,849 (awarded contract); J. F. Cogan Co., $289,585; Newman & Carey Co., $288,980; and James O'Leary, $296,397.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received until noon, Apr. 20, by Charles J. McCormack, Borough Pres., for constructing a combined sewer in Main Ave. from Clove Ave. to De Kalb St.

✚Port Chester, N. Y.—(Official)—Bids were received Apr. 5 by the Board of Trustees for (a) sewers, (b) tunnel, (c) pump house and sedimentation tanks as follows: W. J. MERTZ, (a) $47,215 (awarded contract), (c) $43,500; J. J. Hart, (a) $49,293, (b) $22,690; (c) $72,000; DALY & MERRITT, (a) $47,766, (b) $22,709 (awarded contract), (c) $61,531; Simon Russek, (a) $58,754, (b) $15,966, (c) $58,900; Fusco Construction Co., (a) $46,885, (b) $24,150, (c) $72,000; Frank Nordone, (a) $50,216 (b) $16,247, (c) $58,863; Lincoln Steele Co., (a) $57,946, (b) $38,926, (c) $71,800; SUBURBAN ENGINEERING CO., (c) $39,700 (awarded contract); F. C. Wertz, (c) $45,315; C. F. Carroll, (b) $30,170. F. S. Odell is Engr. Noted Mar. 25.

Rochester, N. Y.—Bids will soon be received by F. Pifer, Secy. Bd. of Contract and Supply, for the construction of a sewer in Hollenback and other streets. Estimated cost, $70,000. C. L. Raymond is Asst. City Engr.

Rochester, N. Y.—The city contemplates constructing an outlet sewer in Thurston Rd., Gardner and West Ave. The estimated cost is $34,000.

✚Rochester, N. Y.—The Board of Contract and Supply has awarded the contract for the construction of a sewer tunnel in Main and Front St. to MICHAEL H. RIPTON at $117,715. Noted Mar. 25.

Watertown, N. Y.—Bids will be received until 8 p.m., Apr. 16, by E. W. Sayles, City Engr., for the construction of an 8-in. tile sanitary sewer in Cooper St. from the Trunk Sewer to Highland Ave.

Hammonton, N. J.—The City Council will issue $108,500 in bonds, the proceeds of which will be used for constructing a sewer system and a sewage-disposal plant.

Maywood, N. J.—The State Board of Health has approved plans prepared by Alexander Potter, 50 Church St., New York, for the construction of a sewer system. Estimated cost, $25,000.

Newark, N. J.—See item under "Miscellaneous."

Trenton, N. J.—The Board of City Commissioners has authorized the construction of sewers in Smith Ave. and Stanton St.

Beaver Falls, Penn.—An election will be held May 15 to vote on a bond issue of $40,000 for the construction of a sewage-disposal plant, an outfall sewer and for the completion of the sanitary sewer system.

Indiana, Penn.—Bids will be received until May 3 by Thomas Pealer, Engr., for constructing one mile of 8-in. and ½ mile of 6-in. pipe sewers.

Punxsutawney, Penn.—The city contemplates constructing sewers and a sewage-disposal plant. Thomas Pealer, Indiana, is Engr.

Wilkes-Barre, Penn.—The borough has been instructed by the State Department of Health to have plans prepared by Jan. 1, 1916 for a sewage-disposal plant.

✚★York, Penn.—(Official)—Bids were received Apr. 2 for (a) construction of a sewage-disposal plant and pumping station, (b) machinery, as follows: BENNETT & RANDALL, Greensburg, (a) $54,553 (awarded contract), (b) $14,280 (irregular); George C. Souder, Lancaster, (a) $55,740; Cantrell Construction Co., Philadelphia, (a) $58,553; Pitt Construction Co., Pittsburgh, (a) $63,246, (b) $17,000; C. R. Simpson, New York, N. Y., (a) $63,693, (b) $16,600; T. L. Eyre, Philadelphia, (a) $64,200; D. C. Serber, New York, N. Y., (a) $65,326; Suburban Engineering Co., New York, N. Y., (a) $66,893; F. B. Beasman & Co., Baltimore, Md. (a) $68,026; A. B. Kraft, York, (a) $69,000; F. J. Boas, Philadelphia, (a) $70,307, (b) $17,500; Slack & Slack Co., Baltimore, Md., (a) $72,392; Kelley-McFeeley, Camden, N. J., (a) $73,387; Heyman & Goodman Co., Jersey City, N. J., (a) $101,380, (b) $19,700; Pacific Flush Tank Co., New York, N. Y., (b) $17,980; M. L. Bayard, Philadelphia, (b) $18,000; Lewis & Roth Co., Philadelphia, (b) $18,857. Noted Mar. 4.

Baltimore, Md.—Bids will be received by the Board of Awards until Apr. 21 for constructing lateral sewers and house connections in District No. 37-A. Calvin W. Hendrick is Ch. Engr. of Sewerage Comn.

★Laurel, Md.—Bids will be received until 2 p.m., May 1, by George W. Waters, Jr., Mayor, for the construction of a sanitary sewer system, water mains and other water-works. Harry Stevens, Union Trust Bldg., Washington, D. C., is Engr. Noted Mar. 25.

✚Richmond, Va.—The contract for the construction of the Shockoe Creek sewer has been awarded to L. HANKINS, at $61,863.

✚Richmond, Va.—(Official)—The contract for the construction of a section of the Bacon quarter branch sewer has been awarded to L. HANKINS, at $54,671. Bids opened Apr. 2. Noted Apr. 1.

★Kinston, N. C.—(Official)—(Correction)—The lowest bid submitted Mar. 23 for sewerage work was that of Dunn & Lalland Bros., Birmingham, Ala. Noted Mar. 4.

Newbern, N. C.—See item under "Miscellaneous."

Old Fort, N. C.—Plans have been prepared by the J. B. McCrary Co., Atlanta, Ga., for constructing sewers. The estimated cost is $10,000.

Columbia, S. C.—An election will be held June 8 to vote on a bond issue of $200,000, the proceeds to be used for sewerage work.

Winnsboro, S. C.—See item under "Water Supply-Irrigation."

Augusta, Ga.—The lowest bid submitted for the construction of 900 ft. of brick sewer, 1200 ft. of brick sewer, 6½ ft. in diameter, in the alley between Chestnut and Forest St., from Milledgeville to Wrightsboro Rd., was that of the McKenzie Construction Co., at $19,650.

Macon, Ga.—Bids will be received until Apr. 30 by D. S. Jones, City Clk., for the construction of a sewer in West Vineville, estimated to cost $15,000, also a 300-ft. sewer in Culver St. to Rogers Ave. J. J. Gaillard is City Engr. Noted Oct. 8 and Mar. 25.

Laurel, Miss.—See item under "Water Supply-Irrigation."

Nashville, Tenn.—The City Commissioners have appropriated $3500 for an extension of the west end brick trunk sewer and $4000 for clay lateral sewers.

Dayton, Ky.—Bids will be received until 8 p.m., Apr. 19, for constructing sewers as follows: 12-in. vitrified pipe sewer in 10th Ave. from Terrace Ave. to McKinney St.; 21-in. vitrified pipe sewer in Terrace Ave. from Ninth to 10th Ave.; 12-in. vitrified pipe sewer in Brooklyn Ave. from Dayton to Berry Ave.; and 15-in. vitrified pipe sewer in Dayton Ave. from Eighth to Brooklyn Ave.

Oakland, Ky.—The city contemplates constructing a pipe line sewer and septic tanks.

Paducah, Ky.—The city contemplates constructing a trunk sewer in the west end. George C. Wallace is Comr.

Akron, Ohio—The city has sold $500.00 in bonds, the proceeds of which will be used for the completion of the sewage-disposal plant.

Cleveland, Ohio—Bids will be received until noon, Apr. 22, by the Commissioner of Purchases and Supplies, Room 511, City Hall, for the construction of sewers in East 65th St., between Hough and Euclid Ave.; Kinsbury Run, from East 75th St. 200 ft. west, and St. Clair Ave., between London Rd. and East 171st St. Robert Hoffman, 405 City Hall, is Engr.

✚Dayton, Ohio—(Official)—The contract for constructing storm sewers has been awarded to HECKER & KIRCHNER, at $10,257, and WILLIAM HILT, Yellow Springs, at $20,831. Noted Apr. 8.

East Youngstown, Ohio—Bids will be received until noon, Apr. 26, by C. R. Anderson, Village Clk., for the construction of a sewer in Fairview Ave. from Wilson Ave. to Coitsville Rd.

Greenfield, Ohio—Plans are being prepared by H. L. Maddocks, Trust Bldg., Newark, for the construction of a sanitary sewer system and treatment plant.

✚Attica, Ind.—(Official)—Bids were received Mar. 29 by Well Light, City Clk., for the construction of 1850 ft. of main sewer and 1500 ft. of lateral sewer as follows: M. W HOLBEN, Gary, $15,121 (awarded contract); Keneth Kuntz, Chicago, Ill., $15,474; William Fry, LaFayette, $15,531; Foulks Construction Co., Terre Haute, $15,834; Carson Payson Co., Danville, Ill., $16,123; Hatch & Son, Goshen, $16,137; R. Young is City Engr. Noted Mar. 25.

Hammond, Ind.—Bids will be received until 10 a.m., Apr. 16, by the Board of Public Works, for constructing sewers in Columbia Ave.

Muncie, Ind.—Bids will be received until 10 a.m., Apr. 17, by the Board of Public Works, for the construction of sewer No. 2 in Lincoln St.

Escanaba, Mich.—At a recent special election the citizens voted in favor of issuing $80,000 in bonds for constructing a sewer system.

Chicago, Ill.—Bids will be received until Apr. 16 by D. J. Glackin, Secy. Bd. Local Imp., for constructing drains in portions of Calhoun, Montrose and Pensacola Ave., West 87th and South Robey St.; also for constructing sewers in Concord and Augusta Pl., Ellis Ave., Rue and various other streets and alleys.

Galesburg, Ill.—Bids will soon be received for the construction of a sewer in the Third and Sixth Wards. The estimated cost is $60,000. F. Connolly is Engr.

Appleton, Wis.—Bids will be received until 9 a.m., Apr. 27, by E. L. Williams, City Clk., for the construction of a sewer in South River, Madison and Jefferson St.

✚Milwaukee, Wis.—The contract for constructing Plan No. 10 of the public sewer system has been awarded to JONES & ERBECK, Pittsburgh, Penn., at $282,000.

✚Oconomowoc, Wis.—The City Council has awarded the contract for the construction of a sewer system to A. C. SCHREITER, Manitowoc, at $5604. Noted Apr. 1.

✚Cedar Rapids, Iowa—The contract for constructing sanitary sewers in Eighth and H St. has been awarded to MESSNER & CO. Bids were opened Mar. 29.

✚Dubuque, Iowa—The contract has been awarded to C. B. McNAMARA & CO. for the construction of a storm sewer in Fifth Ave.

✚Grinnell, Iowa—(Official)—Bids were received Mar. 31 by A. C. Harriman, City Clk., for the construction of a sewer system as follows: (a) main sewers, (b) lateral sewers, (c) outlet sewers and disposal plant: WILLIAM F. RILEY, St. Louis, Mo., (a) $35,042 (awarded contract), (b) $31,009 (awarded contract); J. W. TURNER IMPROVEMENT CO., Des Moines, (a) $39,345, (b) $36,094, (c) $35,956 (awarded contract); Thomas Carey & Sons, Clinton, (a) $58,247, (b) $32,941, (c) $48,091; William Horrabin, Iowa City, (a) $47,592, (b) $43,222, (c) $40,626; Inter-Mountain Bridge & Construction Co., Tecumseh, Neb., (a) $36,913, (b) $35,149, (c) $46,861; Adams-Martin Construction Co., Centerville, (b) $38,909; Arthur A. Dobson, Lincoln, Neb., (b) $33,360; Dearborn Construction Co., Waterloo, (a) $48,173, (b) $46,007, (c) $39,698; Western Construction Co., Iowa City, (b) $39,828, (c) $42,371; A. W. Merrick, Boone, (c) $42,308; F. E. Young, Iowa City, (b) $35,247; W. D. Lovell, Minneapolis, Minn., (b) $39,959; Ward & Weighton, Sioux City, (c) $38,739; Alamo Engine & Supply Co., Omaha, Neb., (b) $39,353; D. E. Keeler Co., Davenport, (b) $37,534; H. J. Cathroe Co., Omaha, Neb., (a) $42,839, (b) $34,396; William C. Fraser, St. Paul, Minn., (b) $39,658; Henry Rees, Quincy, Ill., (a) $39,624, (b) $36,351. The Iowa Engineering Co., Clinton, Iowa, is Engr. Noted Mar. 25.

Duluth, Minn.—Bids will be received until 10 a.m., Apr. 16, by the Commissioner of Public Works, for the construction of a sanitary sewer in Ninth St. from 23rd to West 24th Ave.

Duluth, Minn.—Bids will be received until 10 a.m., Apr. 16, by R. Murchison, Comr. of Pub. Wks., for the construction of a sanitary sewer in Ninth St.

Soup City, Neb.—The citizens have voted $10,000 in bonds for the construction of a sewer system.

Kansas City, Mo.—See item under "Miscellaneous."

Osceola, Ark.—See item under "Miscellaneous."

Paragould, Ark.—The city contemplates the construction of a sewer system. The estimated cost is $25,000.

San Antonio, Tex.—Bids will be received until Apr. 19 by Fred Fries, City Clk., for the construction of a pumping station and a sanitary sewer system. Hans Helland is City Engr.

Afton, Okla.—Bids will be received about May 1 by the City Clerk for the construction of a sewer system. Plans prepared by the Benham Engineering Co., Oklahoma, Okla. Estimated cost, $37,000. Noted Dec. 3, Jan. 14 and 28.

✚Drumright, Okla.—It is reported that the contract for the construction of a sewer system has been awarded to the TOLBERT CONSTRUCTION CO. at $18,500. Noted Feb. 11.

✚Denver, Colo.—The contract for the construction of a sewer has been awarded to the GORDON & TAYLOR CONSTRUCTION CO., at $11,000. Noted July 23.

Lewiston, Idaho—Bids will be received until Apr. 26 by C. F. Loland, City Clk., for sewer construction in District No. 6 as follows: 5175 lin.ft. of 10-in. sewer pipe in place; 675 lin.ft. of 12-in. sewer pipe in place; 1850 lin.ft. of 10-in. sewer pipe in place; 3870 ft. of 8-in. sewer pipe in place; 23 manholes; 6 flush tanks; and 8 lamp wells.

Parma, Idaho—Bids will be received in May for the construction of sewers according to plans prepared by Fred J. McConnel, Caldwell. Noted Apr. 1.

Chehalis, Wash.—The City Council contemplates constructing a sewer system in the southern part of the city at an approximate cost of $60,000.

Spokane, Wash.—The city contemplates constructing a sewer system in the alley between Fairview and Frederick Ave. from Monroe to Potter St. The estimated cost is $12,000. Morton Macartney is City Engr.

✚**Portland, Ore.**—The contract for the construction of the Stephens and East Clay St. district sewer has been awarded to AZAR & CO., at $4491.

Huntington Beach, Calif.—The Holland Construction Co., San Diego, was the low bidder at $11,900, for the construction of the outfall section of the municipal sewer system. Noted Mar. 11.

✚**Los Angeles, Calif.**—The contract for the construction of a sewer in Russel Ave. from Western Ave. to Harvard Blvd., and other streets has been awarded to J. CHOLVICH at $7281.

Ocean Beach, Calif.—The lowest bid submitted for the construction of a sewer system was that of A. C. Hose, at $49,300. F. Lockwood is Engr. Noted Mar. 4 and 11.

Halifax, N. S.—The City Council plans to extend the sewer system and construct an intercepting sewer. Estimated cost, $150,000. F. W. W. Doane is Engr.

Dunnville, Ont.—The Town Council contemplates constructing 2800 ft. of tile drain in Canal St. Estimated cost, $4400. R. C. Kyd is Engr.

GARBAGE

★**Manchester, N. H.**—(Official)—Bids will be received until 2 p.m., Apr. 20, by the Board of Public Works, for constructing a refuse destructor. Samuel J. Lord is Engr. and Harry W. Spaulding is Chn. Bd. of Pub. Wks. Noted Sept. 24, 1914, and Feb. 11, 1915.

✚**Yonkers, N. Y.**—The contract has been awarded to the BOOTH CONSTRUCTION CO., Yonkers, at $51,412, by the Board of Contract and Supply for building an incinerator. Noted Oct. 22.

Chicago, Ill.—Bonds for $700,000 have been voted by the citizens, the proceeds of which will be used for the completion of the garbage reduction works. Noted Apr. 8.

Lincoln, Neb.—The expenditure of $50,000 is contemplated by the City Council for the construction of a garbage disposal plant.

STREETS AND ROADS

Boston, Mass.—Bids will be received until Apr. 16 by the Public Works Department for macadam roadway and artificial sidewalks in Stratton St. and Neponset Ave., Dorchester, and in Convent Path, East Boston District. L. K. Rourke is Comn.

✚**Boston, Mass.**—A contract for 3000 lin.ft. of state road at Grafton has been awarded to TORCHIA & BRYNE, at $7750. Other bids were: Middlesex Contracting Co., $7840; Bernik Construction Co., $8072; Alco Construction Co., $8389; F. E. Ellis, Melrose, $9187; C. E. Home, Millbury, $9297; J. A. Goffery, Medford, $10,187; H. J. Maguire, Worcester, $10,771; Antony Pullato, Lowell, $11,079. Noted Apr. 1.

✚**Boston, Mass.**—A contract for 5200 lin.ft. of state road at Gloucester has been awarded to PERINI CONSTRUCTION CO., at $16,149. Other bids were: M. McDonough, Swampscott, $16,640; R. F. Hudson, Melrose, $16,660; J. J. McCarthy Co., $16,949; A. G. Tomaselle, $17,889; T. A. Moynahan, Hamilton, $18,290; Middlesex Contracting Co., Framingham, $18,359; Alco Contracting Co., $18,572; A. M. Cusack, $18,712; E. R. Nowell, Fitchburg, $20,943; J. A. Goffery, Medford, $21,276; Palmer Engineering and Construction Co., Peabody, $21,545; W. Cressy, Gloucester, $21,705; F. E. Ellis, Melrose, $22,815; D. J. Sheehan, Lynn, $23,495. Noted Apr. 1.

Boston, Mass.—Bids will be received until Apr. 17 by the Transit Commission for paving with wood blocks the entire length of Summer St., also until Apr. 24 for paving with wood blocks Boylston St. from Arlington St. to Bolyston Pl. Estimated cost of both, $100,000. E. S. Davis, 15 Beacon St., is Chf. Engr.

Boston, Mass.—Bids will be received until Apr. 20, by the State Highway Commission, for the construction of 15,300 lin.ft. of road in Bernardston; 9600 lin.ft. of road in South Hadley; 15,700 lin.ft. of road in Greenfield; 440 lin.ft. of road in Northbridge; 11,000 lin. ft. of road in Amherst and Hadley and 8000 lin.ft. of road in Raynham. Arthur W. Dean, 15 Ashburton Pl., is Chf. Engr.

✚**Boston, Mass.**—The contract for asphalt and bitulithic pavement repairs for 1915 has been awarded to the CENTRAL CONSTRUCTION CO., at $31,750. The only other bid was that of Warren Bros. Co., $33,250. Noted Mar. 18.

✚**Boston, Mass.**—The contract for hassam block pavement on Braintree St., Brighton District, has been awarded to JAMES DOHERTY, at $15,085. Other bids were: Charles J. Jacobs Co., $15,321 and John E. Quinn, $15,753. Noted Mar. 25.

Southbridge, Mass.—The town contemplates macadamizing the North Woodstock Rd., at a cost of $5000, $2000 of which will be paid by the state.

★**Quincy, Mass.**—(Official)—The contract has been awarded to JOHN CASHMAN & SON CO., Boston, at $63,700, for subgrading Furnace Brook Parkway from Quincy Shore Reservation to Hancock St. Other bids were: Jeremiah Sullivan, Cambridge, $111,630; D. M. Briggs & Co., Boston, $107,570; Geo. T. Randle Co. and Randle & Stoddard, East Boston, $97,250; J. P. O'Riorden, Charlestown, $94,505; Nathan S. Brock, Brookline, $94,450; Richmond F. Hudson, $94,025; John R. Burke, Boston, $92,880; Clark & Gore, Dorchester, $91,100; West Roxbury Trap Rock Co., Roxbury, $90,250; Middlesex Contracting Co., Framingham, $88,950; Farrell & Loud, Somerville, $87,023; Caputo & Giovannini, Boston, $86,300; A. William & Co., Boston, $83,000; Antonio G. Tomaselle, Dorchester, $82,275; Hugh Nawn Contracting Co., Roxbury, $80,450; H. P. Converse Co., Boston, $78,850; Peter Bompiani & Co., Boston, $75,780; Dennis F. Crowley, East Milton, $75,335; Coleman Bros., Boston, $70,875; Rowe Contracting Co., Boston, $70,850; James H. Fannon, Somerville, $69,650; Perini Construction Co., Ashland, $67,000. Noted Mar. 18.

Hartford, Conn.—See item under "Miscellaneous."

✚**Hartford, Conn.**—Contracts for road work, bids for which were received by the State Highway Commissioner Mar. 22, were awarded as follows: South Windsor Township, about 8100 lin.ft. bituminous macadam on Deming St., to A. BRAZOS & SONS, Middletown, Conn., at $13,557. Bloomfield Township, about 6610 lin.ft. macadam on the Simsbury Rd., to the R. G. MILLER CONTRACTING CO., Hartford, Conn., at $8000; also about 6879 lin.ft. macadam on the Blue Hills Rd., to the B. D. PIERCE, JR. CO., Bridgeport, Conn., at $8473. Columbia Township, about 9964 lin.ft. gravel on the Columbia Green Rd., to the R. G. MILLER CONTRACTING CO., Hartford, Conn., at $15,334. Noted Mar. 18 and Apr. 1.

Hartford, Conn.—Bids will be received until 2 p.m., Apr. 19, by the State Highway Commission for state road work as follows:

Hampton Township, about 2975 lin.ft. native stone macadam construction. Specifications on file at Town Clerk's office, Hampton.

Old Lyme Township, about 8690 lin.ft. native stone macadam construction. Plans on file at store of J. F. Bugbee, Lyme.

Wethersfield Township, about 1013 lin.ft. bituminous macadam construction. Specifications on file at store of A. W. Hanmer, Wethersfield.

Rocky Hill Township, about 1445 lin.ft. plain or reinforced concrete. Specifications on file at Town Clerk's office, Rocky Hill.

★**Albany, N. Y.**—(Official)—Bids will be received until 1 p.m., Apr. 26, by Edwin Duffey, State Highway Comr., for furnishing bituminous material to the various counties.

Long Beach, N. Y.—Bonds for $200,000 were sold Apr. 3, the proceeds of which will be used for improving streets. Noted Mar. 25.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—The contract for improving New Lots Ave. has been awarded to the UVALDE ASPHALT PAVING CO., at $6527. Noted Mar. 18.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Contracts have been awarded for paving East 17th St., 54th St., and West 32d St. to the BROOKLYN ALCATRAZ ASPHALT CO., 407 Hamilton Ave., Brooklyn, at $4677, $82,455 and $46,225, respectively. Noted Mar. 18 and Apr. 1.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 11 a.m., Apr. 21, by L. H. Pounds, Borough Pres., for improving Argyle Rd. from Ditmas to Newkirk Ave., Canarsie Lane from Nostrand to New York Ave., 61st St. from 12th to New Utrecht Ave., 38th St. from Tenth to Ft. Hamilton Ave., East Tenth St. from Ave. N to Ave. O, East 12th from Ave. R to Ave. S and 15th Ave. from 38th St. northerly to the right-of-way of the Brooklyn Rapid Transit R. R. Co.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until 3 p.m., Apr. 22, by the Park Board, Municipal Bldg., for coarse and fine gravel, trap rock and trap rock screenings, cow bay sand for parkways in the Borough of Brooklyn. Cabot Ward is Pres. of the Park Bd.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids will be received until noon, Apr. 20, by Charles J. McCormack, Borough Pres., for improving First Ave. from Jersey to Pine St. and Belmont Pl. from Vine St. to Ft. Place.

Port Jervis, N. Y.—Bids will be received until Apr. 22 by John F. Cleary, City Clk., for paving Jersey Ave.

✚**Rochester, N. Y.**—The contract for paving Culver Rd. with asphalt block has been awarded to FRANK V. BROTSCH, at $14,324.

✚**Schenectady, N. Y.**—The contract for improving Dock St. has been awarded to the SCHENECTADY CONTRACTING CO., Schenectady, N. Y.

✚**Schenectady, N. Y.**—A contract for paving the public market with stone filled asphalt has been awarded to J. F. SHANLEY CO., Newark, N. J.

✚**Watertown, N. Y.**—A contract for paving a section of the Public Square with wood block has been awarded to WILLIAM F. COGLEY, Utica, at $28,822.

✚★**Bloomsbury, N. J.**—(Official)—The contract for constructing 2.91 miles of water-bound macadam on the Bloomsbury-Still Valley Rd. has been awarded to E. P. ARBOGAST, Stroudsburg, Penn., at $43,131. Noted Mar. 11.

Buttzville, N. J.—The lowest bid received by the Board of Chosen Freeholders of Warren County, Belvidere, was that of Smith Bros., Hackettstown, N. J., at $43,131. Noted Feb. 4 and Mar. 11.

Camden, N. J.—Bids will be received until Apr. 19 by the Chairman of the Committee on Streets and Highways for improving Carter's Pl., Sixth and Division St.

Newark, N. J.—Bids were received Apr. 1 for paving Central Ave. from Broad St. to Plane St. as follows: Barber Asphalt Paving Co., $12,973; Glenfield Construction Co., $11,433; Newark Paving Co., $11,136; McMahon Construction Co., $11,024; John S. Geiger Sons Co., $11,489; Van Keuren & Son, $11,486; John E. Donovan, $11,622; Ralph Langrovamin, $11,996. Noted Mar. 25.

Newark, N. J.—Bids will be received until Apr. 22 for paving Elm Rd., Chester Ave., Ferdinand and Hunterdon St. Morris R. Sherrard is City Engr.

Newark, N. J.—See item under "Miscellaneous."

New Brunswick, N. J.—The Board of Chosen Freeholders of Middlesex County plans the improvement of the road from Keasbey to the Perth Amboy city line.

Plainfield, N. J.—(Official)—Bids were received Apr. 9 by the Common Council for constructing concrete pavement as follows: Weldon Contracting Co., Rahway, N. J., $4635; Hassam Paving Co., Worcester, Mass., $5720; Alfonzo Collucci, Plainfield, $5764; Burke & Bonham, Plainfield, $5869; C. H. Winans & Co., Elizabeth, $5898; Mobus Bros., North Plainfield, $6037. Noted Mar. 25.

✚**Somerville, N. J.**—The contract for rebuilding the road from Larger Cross Roads, Bedminster Township to the Hunterdon county line has been awarded to JOHN La COMPT, Lakewood, N. J., at $53,715. Noted Mar. 11.

★**Trenton, N. J.**—(Official)—Bids will be received until 2:30 p.m., Apr. 20, by the Board of Chosen Freeholders of Mercer County, Trenton, for improving about three miles of Section 1, River Rd. John J. Power is Dir. Noted under "Miscellaneous" in Apr. 8 issue.

★**Trenton, N. J.**—(Official)—Bids will be received until 2:30 p.m., Apr. 20, by the Board of Chosen Freeholders of Mercer County, Trenton, for improving about three miles of road Section 2, River Rd. John J. Powers is Dir. Noted under "Miscellaneous" in Apr. 8 issue.

★**Trenton, N. J.**—(Official)—Bids will be received until 2:30 p.m., Apr. 20, by the Board of Chosen Freeholders of Mercer County, Trenton, for the laying of a bituminous macadam highway known as the Trenton-Allentown Turnpike. John J. Powers is Dir. Noted under "Miscellaneous" in Apr. 8 issue.

Beaver Falls, Penn.—A special election will be held May 15 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for street paving.

Harrisburg, Penn.—(Official)—Bids will be received until 10 a.m., Apr. 20, by the State Highway Department for material, machinery, implements and tools for maintenance and repair of State Highways. Joseph W. Hunter is First Deputy State Highway Comr.

★**Scottdale, Penn.**—(Official)—Bids will be received until 7 p.m., Apr. 16, by F. M. Newcomer, Secy. of the Borough Council, for grading, curbing and paving Pittsburgh, Hickory, Grove and Brooks St.

Wilkinsburg, Penn.—(Official)—Bids will be received until 4 p.m., Apr. 17, by Frease & Sperling, Borough Engr., for improving sections of South Ave., Hay St. and Vincent Way.

✚★**Cumberland, Md.**—A contract for paving 16 streets has been awarded to LOUIS LAWSON, Norfolk, Va., at $130,364. Noted Mar. 18.

Richmond, Va.—(Official)—Bids will be received until noon, Apr. 19, by G. P. Coleman, State Highway Comr., for constructing 2.33 miles of gravel road from Mechanicsville Turnpike and Creighton Rd. and 0.35 mile between Mechanicsville Turnpike and city limits in Henrico County.

Welch, W. Va.—Bids will be received until May 1 by R. K. Bragonier, Pres., County Court, for the sale of $165,000 in bonds, the proceeds to be used for constructing roads in McDowell County.

✚★**Kinston, N. C.**—A contract has been awarded to the WEST CONSTRUCTION CO., Chattanooga, Tenn., for making street improvements and sewerage improvements. Noted Mar. 4.

Anderson, S. C.—Bonds for $83,000 have been sold, the proceeds of which will be used for paving.

Anderson, S. C.—At a recent election the question of issuing $750,000 in bonds for constructing roads in Anderson County was defeated. Noted Mar. 4.

Cartersville, Ga.—Plans are being prepared by W. W. Daniels for paving Main St. with vitrified brick or wood block.

Dublin, Ga.—An election will be held June 8 to vote on the question of issuing $10,000 in bonds, the proceeds to be used for improving streets.

Trenton, Ga.—Bonds for $60,000 were sold Apr. 6, the proceeds of which will be used for constructing roads.

Clearwater, Fla.—The Board of Commissioners of Pinellas County contemplates an expenditure of $350,000 for constructing about seven miles of road. The J. B. McCrary Co., Atlanta, Ga., is Engr.-in-Charge.

Green Cove Springs, Fla.—Plans have been prepared by the J. B. McCrary Co., Atlanta, Ga., for the construction of 30 miles of road in Clay County.

Miami, Fla.—An election will be held Apr. 20 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing the Ingraham highway.

Birmingham, Ala.—The Board of Commissioners plans to improve 20th St. from First to Fifth Ave. The estimated cost is $5000. Julian Kendrick is City Engr.

Jonesboro, Tenn.—A bond issue of $425,000 will be submitted May 15 to the citizens of Washington County, the proceeds of which will be used for constructing roads.

Dayton, Ky.—(Official)—Bids will be received until 8 p.m., Apr. 19, by W. C. Martin, City Clk., for improving Brooklyn Ave. from Dayton to Berry Ave. and Dayton Ave. from Eighth to Brooklyn Ave.

Louisa, Ky.—An election will be held May 17 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing roads in Lawrence County.

Tompkinsville, Ky.—An election will be held May 15 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for constructing roads.

Akron, Ohio—(Official)—Bids will be received until 11 a.m., Apr. 26, by the Board of Commissioners of Summit County for improving the Richfield Rd. C. L. Bower is Clk. of the Bd.

Cincinnati, Ohio—The Cincinnati Motor Speedway Co. has been organized to build a $500,000 motor speedway on the outskirts of Cincinnati. E. W. Edwards is Pres.

Cincinnati, Ohio—Bids will be received until May 14, by the Commissioners of Hamilton County for repairing the East Miami River Rd. The estimated cost is $27,134.

Cleveland, Ohio—(Official)—Bids will be received until 10 a.m., Apr. 28, by E. G. Krause, Clk. of Bd. of Comrs. of Cuyahoga County for improving Berea Rd. from West 117th St. to West Madison Ave.

Findlay, Ohio—Bids have been received for paving Cherry St. with (a) brick, (b) westrumite, from C. B. Hall & Son, Findlay, (a) $10,189, (b) $9657; Haskell & Battles, Painesville, (a) $10,631, (b) $9606.

Ironton, Ohio—Bonds for $100,000 have been sold, the proceeds of which will be used for improving and constructing pikes. Noted Mar. 25.

Jeromesville, Ohio—Bids will be received until noon, May 1, by M. L. Hosler, Clk. of the Council, for grading, draining and paving Main St. with brick.

✚**Napoleon, Ohio**—The Commissioners of Henry and Putnam Counties have awarded the contract for the construction of two miles of water-bound macadam road to GAGHEN, McGEE & STROHL, Custar, at $9598. Noted Mar. 18.

Rockford, Ohio—(Official)—Bids will be received until noon, Apr. 16, by John W. Lloyd, Village Clk., for improving East, First, Second and Franklin St.

Rocky River, Ohio—Bids will be received until noon, May 4, by Frank Mitchell, Clk., for the sale of $9500 in bonds, the proceeds of which will be used for constructing concrete sidewalks on North Ridge Rd.

Toledo, Ohio—Bids will be received until 10 a.m., May 14, by Charles J. Sanzenbacher, Audr. of Lucas County, for grading, draining and macadamizing the Washington Township Rd.

Evansville, Ind.—Bids will be received until Apr. 22 by the Board of Public Works for improving Oak and Cherry St. and Chandler Ave.

Frankfort, Ind.—(Official)—Bids will be received until 2 p.m., May 18, by the Commissioners of Clinton and Howard Counties for constructing a county line road. Edward Spray is Audr. of Clinton County.

Goshen, Ind.—(Official)—Bids will be received until 1 p.m., May 3, by the Commissioners of Elkhart County for constructing a brick and gravel road in Elkhart Township.

✚**Greenfield, Ind.**—A contract for a gravel road on line dividing Center, Green and Vernon Townships has been awarded to GEORGE W. HOPPES, Anderson, at $7337.

✚**Huntington, Ind.**—The contract for constructing a gravel road in Rock Creek Township has been awarded to GORDON & SONS, Liberty Center, at $24,425.

Indianapolis, Ind.—Press reports state that the Board of Public Works plans to improve Graceland Ave. at an estimated cost of $23,967.

Richmond, Ind.—(Official)—Bids will be received until 10 a.m., Apr. 22, for constructing 20,250 sq.yd. of brick, concrete, wood, block or asphalt pavement. Fred R. Charles is City Engr.

✚**Terre Haute, Ind.**—The contract has been awarded to COOPRIDER & COLLINS, Clay City, at $11,297, for constructing gravel roads in Lost Creek and Pierson Townships. Noted Mar. 4.

Vincennes, Ind.—(Official)—Bids will be received until 10 a.m., May 3, by the Board of Public Works for paving First St.

✚**Grand Rapids, Mich.**—The contract for improving Milton St. from Carlson to Norwood Ave. has been awarded to KLOOTE & SON, at $5829.

✚**Chrisman, Ill.**—A contract has been awarded to the FOULKES CONTRACTING CO., Terre Haute, Ind., at $27,605, for paving Monroe Ave. from the city limits to Illinois St. and Illinois St. from Monroe Ave. to the city limits.

Elgin, Ill.—Press reports state that the City Commissioners voted to pave North State St. at an estimated cost of $28,000.

✚**Galesburg, Ill.**—The contract for paving Cedar St. from Fremont to Dayton St. and Sanborn St. from Broad to West St. has been awarded to J. B. McAULEY, at $13,983.

✚**Kankakee, Ill.**—The contract for paving East Ave. from Court to Chestnut St. has been awarded to FRANK SHIDLER, Kankakee, at $8005.

Paris, Ill.—(Official)—Bids will be received until 2 p.m., Apr. 23, by Harvey Brummett, Comr. of Highways of Edgar Township, Edgar County, for constructing 13,200 lin.ft. of gravel and four concrete culverts on the Cherry Point Rd.

Delavan, Wis.—Bids will be received by the City Clerk until 10 a.m., Apr. 30, for grading and paving various streets with reinforced concrete, vitrified brick, or asphalt macadam, together with combined concrete curb and gutter.

✚**Grand Rapids, Wis.**—A contract for concrete paving has been awarded by the County Highway Commissioner of Wood County to BOSSERT BROS., Grand Rapids, at $11,491.

✚**Marinette, Wis.**—(Official)—A contract for constructing 11,000 sq.yd. of concrete pavement has been awarded to MURPHY CONSTRUCTION CO., Manitowoc, at $16,343. Other bids were Corbin Bros., $16,370; Delta Construction Co., $16,520; C. Johnson, $16,549. Noted Mar. 18.

Marshfield, Wis.—Bids will be received until Apr. 20 by the Board of Public Works for paving approximately 24,000 sq.yd.

Milwaukee, Wis.—Bids will be received until 10:30 a.m., Apr. 20, by the Department of Public Works for paving sections of various streets. Fred G. Simmons is Comr. of Pub. Wks.

✚**Oshkosh, Wis.**—The Board of Public Works has awarded contracts for paving to J. RASMUSSEN & SONS, Ashkosh, Vine, Harrison and Eveline St. and East Lincoln Ave.; LARSON CONSTRUCTION CO., Oshkosh, Algoma St.

✚**Red Oak, Iowa**—A contract for paving about 33 streets with asphaltic concrete has been awarded to WILLITSON CO., Chicago, Ill.

✚**Vinton, Iowa**—A contract has been awarded to K. HAHN, Cedar Rapids, for laying 9200 sq.yd. of brick pavement.

Moorhead, Minn.—Bids will be received until 11 a.m., Apr. 27, by A. O. Houghim for supplying corrugated metal pipe to be used on State Roads Nos. 2 and 6.

✚**Alliance, Neb.**—(Official)—A contract for improving a number of streets has been awarded to J. M. ROBERTS, Omaha, at $5300. Noted Mar. 18.

Lincoln, Neb.—The City Council contemplates an expenditure of $50,000 for park extensions.

✚**McIntosh, S. D.**—(Official)—The contract for grading the county highway has been awarded to JOHN CARLSON, Lewistown, Mont. Noted Mar. 11.

✚**Kansas City, Mo.**—Contracts have been awarded for concrete paving as follows: 5495 sq.yd. to A. R. MENSE, $4561; 6608 sq.yd. to J. O'CONNOR & SON, $5717; 5780 sq.yd. to RELIANCE CONSTRUCTION CO., $4855.

Morrilton, Ark.—Press reports state that the City Council plans to pave the principal streets. J. A. Frisby is Mayor.

Russellville, Ark.—The Commissioners of Pope County will build a road from Russellville north to Harrison, Boone County, about 96 miles.

Anderson, Tex.—At the election held Mar. 3, the question of issuing $65,000 in bonds, the proceeds to be used for constructing roads in District No. 5, Precinct No. 1, was defeated.

Houston, Tex.—(Official)—Bids will be received until 10 a.m., Apr. 19, by H. L. Washburn, Audr. of Harris County, for grading the Kuykendall Rd.

Port Lavaca, Tex.—At a recent election the citizens of Road District No. 1, Calhoun County, voted in favor of issuing $60,00 in bonds, the proceeds of which will be used for constructing roads.

✚Cushing, Okla.—A contract for laying approximately 35,000 yd. of vertical fiber vitrified brick pavement has been awarded to ELLIOTT & VANCE, Parsons, Kan.

Lapwai, Idaho—Bids will be received until Apr. 20 by the Town Clerk for paving Main St. and cross streets with macadam.

✚Bellingham, Wash.—(Official)—The contract for constructing a portion of Highway No. 5 has been awarded to the P. J. McHUGH PAVING & CONSTRUCTION CO., Seattle, Wash., at $68,800. Noted Mar. 25.

Edmonds, Wash.—Plans for grading, graveling and paving one-half mile of streets have been completed by the Coast Engineering Co., Everett, Wash. The work is estimated to cost $37,000. Bids will be called for about Apr. 20.

Ritzville, Wash.—(Official)—Bids were received Apr. 5 by the Board of County Commissioners for constructing Permanent Highway No. 3A as follows: Silke & LaPlant, Colville, $41,126; H. L. Wilson Co., Walla Walla, $41,291; S. S. Schuler, Ritzville, $41,750; Standifer-Clarkson Co., Portland, Ore., $41,000; G. L. Stickler, Spokane, $43,840; A. H. Zane & Co., Hanford, $40,817; Mitchell Bros & Payne, Spokane, $44,211.

Seattle, Wash.—Bids will be received until Apr. 27 by the Commissioners of King County for constructing the Auburn Enumclaw Rd., Division No. 2. The estimated cost is $50,000.

✚Seattle, Wash.—The Board of Commissioners of King County has awarded contracts for road construction as follows: Sunset Highway, from Renton to Issaquah, a distance of 10 miles, to HENRY BRICE, at $63,445; grading and graveling 9½ miles of highway from Auburn southeast toward Osceola, to the WASHINGTON PAVING CO., Tacoma, Wash., at $42,194.

✚Portland, Ore.—The contract for repaving Russell St. from Cantenbien to Williams Ave. has been awarded to JOHN KEATING, at $8371. Noted Mar. 18.

✚Bakersfield, Calif.—The Board of Supervisors of Kern County has awarded contracts for road construction to ROBERT SHERER & CO., at $34,925, for a road from Bakersfield to Mojave and to THOMPSON BROS., at $29,657, for a road from Maricopa to Oal River.

✚Coronado, Calif.—JOHN ENGEBRETSEN, San Diego, has been awarded the contract at $41,004, for paving Glorietta Blvd. and Third St.

✚Los Banos, Calif.—A contract for paving about 14 blocks in the business district has been awarded to W. H. WORSWICK, Fresno, Calif.

Sacramento, Calif.—Bids will be received until Apr. 26 by the State Highway Commission, 515 Forum Bldg., for constructing state highways as follows: Monterey County, between Salinas and Lagunita, 6.1 miles; Monterey County, Greenfield to a point 2½ miles north of the King City bridge, 7.3 miles; Monterey County, San Ardo, to a point near Bradley, 10.9 miles; Contra Costa County, from Richmond to Pinole, 5.3 miles; Sonoma County, from Willow Brook to southerly boundary, 6.4 miles.

San Bernardino, Calif.—Bids will be received until 11 a.m., Apr. 20, by the Board of Supervisors of San Bernardino County for constructing several sections of the good roads system.

Halifax, N. S.—The City Council contemplates an expenditure of $50,000 for constructing concrete sidewalks. F. W. W. Doane is Engr.

Ottawa, Ont.—Bids will soon be received for paving Bank St. from Echo Drive to Grove St. with asphalt and stone block. The estimated cost is $60,000. F. C. Askwith is Engr.

Edmonton, Alta.—The City Council plans to pave Portage Ave. The estimated cost is $131,000. A. Latornell, Civic Block, Edmonton, is Engr.

INDUSTRIAL WORKS

Waterville, Maine—Bids are being received by the Central Maine Power Co. for the construction of a four-story storage house on Lockwood St.

Malden, Mass.—The Malden Knitting Mills will construct a four-story, 40x150-ft. mill.

✚Worcester, Mass.—The J. W. BISHOP CO., 109 Foster St., has been awarded the contract to construct a five-story, 40x60-ft. brick storage warehouse for the Worcester Storage Co. on Pleasant St.

✚Narragansett Pier, R. I.—Sinnickson, Savery, Sheetz & Savery has awarded to GEORGE T. BRIGGS the contract for constructing a 2½-story frame structure with a 28x30-ft. wing.

Providence, R. I.—The U. S. Gutta Percha Co., Eddy St., will build a number of additions to its plant. E. B. Whipple is Engr.

Providence, R. I.—Plans are being prepared by William Walker & Son, Arch., for a one-story, 90x250-ft. automobile show building on Broad St. for Walter S. Lederer. The structure will be of glazed terra cotta.

Woonsocket, R. I.—The Nyanza Mills plans to build a one-story, 60x110-ft. brick addition to its dyehouse.

Bridgeport, Conn.—The Bridgeport Projectile Co. has recently been incorporated and will purchase a site for the construction of a large plant for the manufacture of arms and ammunition.

New Britain, Conn.—The Union Mfg. Co. will erect a five-story, 47x160-ft. annex to its plant on Church St.

New Haven, Conn.—The Kolynos Co., 180 Meadow St., will build a four-story, 80x120-ft. factory on Bristol St. Noted Aug. 6, 1914.

Waterbury, Conn.—The Benedict and Burnham branch of the American Brass Co. will replace several of its older structures on South Main St. with modern factory buildings.

✚Buffalo, N. Y.—(Official)—THE TURNER CONSTRUCTION CO. has been awarded the contract for the construction of an 11-story, 80x80-ft. structural steel and reinforced-concrete warehouse for W. H. Walker & Co., 39 Franklin St.

✚Buffalo, N. Y.—(Official)—THE TURNER CONSTRUCTION CO., Prudential Bldg., Buffalo, has been awarded the contract for a four-story, reinforced-concrete, 80x200-ft. factory for the Buffalo Meter Co., 2900 Main St. Lockwood, Greene & Co., Boston, Mass., is Arch.

Buffalo, N. Y.—The Curtis Aëroplane Co. will erect a one-story factory on Churchill St. to cost $25,000.

✚Elba, N. Y.—JOHN LENNON & SON CO., Niagara Falls, N. Y., has received the contract for the erection of 112x260-ft. machine shop, a 75x112-ft. warehouse and a 53x77-ft. power house, all of brick and reinforced-concrete, for the Elba Food Products Co. The estimated cost is $40,000.

✚Ilion, N. Y.—JAMES STEWART & CO., 30 Church St., New York, has received the contract for the erection of four structural steel, brick and concrete four-story factories, which will be built for the Remington Arms Co. at a cost of $600,000.

★Iroquois, N. Y.—Bids will be received until noon, Apr. 23, by William Hunt, Pres. Bd. of Mgrs., Thomas Indian School, for the construction of a silo and ice house and an addition to the dairy barn at the institution. Lewis F. Pilcher, Capitol, Albany, is State Arch.

Syracuse, N. Y.—The constructon of a three-story factory is planned by the N. H. Franklin Mfg. Co. on Gifford St., for the manufacture of die castings. The estimated cost is $65,000.

Pyrites, N. Y.—Plans are being prepared for the construction of a two-story, 50x125-ft. reinforced-concrete storehouse for the De Grasse Paper Co., Watertown.

Camden, N. J.—The Collins Carriage Co. will rebuild its plant which was destroyed by fire.

✚Camden, N. J.—Joseph Campbell & Co., manufacturer of canned soups, has awarded to the WILLIAM STEELE & SONS CO. the contract for the erection of its five-story, 160x700-ft. reinforced-concrete building at Washington Park. Construction will commence in July. Noted Jan. 7.

Harrison, N. J.—An official of the Crucible Steel Co. of America denies the rumor that the company will build a new factory at that place.

✚Hoboken, N. J.—(Official)—THE TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the contract for the construction of a nine-story, reinforced-concrete, 42x68-ft. factory for the American Lead Pencil Co., Willow St. F. M. Small is Arch.

Oil City, Penn.—Day & Zimmerman, Arch., Philadelphia, Penn., is preparing plans for the construction of car barns for the Citizens Traction Co.

✚Philadelphia, Penn.—WILLIAM STEELE & SONS CO., 1600 Arch St., was awarded the contract to build a six-story, 31x141-ft. reinforced-concrete and brick warehouse at 919 Arch St. for Asam Bros.

Philadelphia, Penn.—The Powelton Storage Co. will erect a three-story, 50x85-ft. brick warehouse at 38th and Powelton Ave.

Philadelphia, Penn.—A three-story brick and concrete, 124x127-ft. storage warehouse will be built at 651 North 42nd St. for Elizabeth D. Mellville.

Martinsville, Va.—The Lester Lumber Co., Figsboro, will erect a lumber mill at Martinsville, at a cost of $50,000.

Birmingham, Ala.—At an estimated cost of $150,000, the Woodward Iron Co. will build a plant for the utilization of coal in the manufacture of iron.

Knoxville, Tenn.—The Littlefield-Steere Co. will erect a candy factory to cost $50,000.

Ashland, Ky.—The Norton Iron Works will erect a $50,000 factory for the manufacture of woven wire fence.

Akron, Ohio—The B. F. Goodrich Co. has authorized the expenditure of $500,000 for the erection of a six-story, 80x400-ft., reinforced-concrete factory. There will also be three 80x80-ft. wings.

Cincinnati, Ohio—A permit has been granted to the Newport Rolling Mill Co. for the construction of a 180x600-ft. annex to its galvanizing plant. The estimated cost is $40,000.

Cincinnati, Ohio—The Chicago Mill & Lumber Co. contemplates the establishment of a large plant on Carthage Ave. in St. Bernard. The number of buildings, their size and cost are as yet merely matters of speculation.

Cleveland, Ohio—The Forest City Engineering Co., Hippodrome Bldg., will prepare the plans for a six-story warehouse at Lakeside Ave. N. E. and East 22nd St., for the Fisher Bros. Co. Estimated cost, $150,000.

Cleveland, Ohio—Plans are being prepared by S. H. Weis, Arch., 1030 Schofield Bldg., for the construction of a cold storage plant at East Ninth and Berg St. for the Morris & Cornsweet Co. It will cost $90,000.

✚Cleveland, Ohio—The Willard Storage Battery Co. will add another unit to the factory under way at 280 East 131st St. The contract has been awarded to G. W. FEAGA & CO. The cost will be $27,000.

✚Cleveland, Ohio—JAMES L. STUART, Illuminating Bldg., has been awarded the contract to erect an eight-story warehouse at West 48th St. for the Westinghouse Electric Co.

✚Toledo, Ohio—(Official)—The Willys-Overland Co. has awarded a contract to the MACARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, N. Y., for the concrete pile foundations of its new assembly building and power house. Mills, Rhines, Bellman & Nordorc is Arch.

Warren, Ohio—The Warren Tank & Boiler Co., A. R. Hughes, Pres., will extend its plant by building a 180x850-ft. addition.

Evansville, Ind.—The Blount Plow Co. will erect a factory addition at a cost of $200,000.

Madison, Wis.—Bids will soon be received by Gould, Wells & Blackburn Co, for a four-story, 66x200-ft. brick and stone building to replace one destroyed by fire. The plans are nearing completion by Alfred C. Clas, Arch., Colby-Abbot Bldg.

✚Milwaukee, Wis.—WALTER W. OEFLEIN has been awarded the contract for the construction of a six-story, reinforced-concrete and brick, 100x150-ft. addition to the plant of the B. F. Johnson Soap Co., Fourth and Fowler St.

✚Milwaukee, Wis.—The contract for steel and iron for the new $35,000 tobacco factory for C. B. Leidersdorf, Milwaukee St., has been awarded to the C. HENNECKE CO., 1353 North Pierce St.

Riverton, Wyo.—The Chicago & Northwestern R.R. Co. will build a $75,000 plant for the curing of railroad ties.

✚St. Louis, Mo.—JAMES A. GODFREY has been awarded the contract to build a two-story factory at 4400 Union Blvd. for the St. Louis Can & Tube Co., 3115 North Broadway. John H. Knechenmeister is Pres. The estimated cost is $50,000.

St. Louis, Mo.—The Martha Investment Co. has secured a permit to build a two-story, 200x250-ft., factory for the St. Louis Paper Can and Tube Co. at 4400 Union Blvd. Estimated cost, $50,000.

Stuttgart, Ark.—Wilbur & Sowell is behind a project to erect a rice-paper mill to cost $300,000.

Houston, Tex.—The Edward C. Smith Furniture Co. will build a three-story warehouse to replace the one recently destroyed by fire.

Denver, Colo.—The Western Chemical Co. will build three structures; two for the manufacture of acids and the third will serve as a roaster for ore treatment. The estimated cost is $200,000.

Silver City, N. M.—The Calumet Mining Co. will expend $150,000 on the erection of a concentrating and cyanide plant to replace the one recently destroyed by fire.

Pocatello, Idaho—Operations will be commenced at once on a three-story concrete and brick building for the Fales-Houston Packing Co..

Tacoma, Wash.—The Eagle Macaroni Mfg. Co., 27th St. and Pacific Ave., will rebuild its plant which was recently destroyed by fire.

Tekon, Wash.—J. Y. Waller and Howard Williamson, of the Desmet Balley Lumber Co. plan the erection of a lumber mill and dry kiln.

Bay City, Ore.—The Tillamook Bay Fish Co., recently incorporated, will erect a modern fish cannery.

Roseburg, Ore.—O. T. Larson, Portland, Ore., is interested in the construction of a $25,000 plant for the Roseburg Sand & Gravel Co.

St. Johns, Ore.—The Western Cooperage Co. has completed the first unit of its cooperage plant and will start the second at once. The plant, with machinery and equipment, will cost $150,000. Noted Jan. 14.

Bakersfield, Calif.—C. J. Hurrie & Son, Stockton, Calif., will rect a window-glass factory to cost $35,000.

✚Berkeley, Calif.—The El Dorado Oil Works has awarded a contract for the construction of additional oil tanks to C. B. LAMBURTH, Merchants' Exchange Bldg., San Francisco, Calif., to cost $10,500.

Redding, Calif.—The Burns Lumber Co. will rebuild its box factory recently destroyed by fire.

Salida, Calif.—The Dairyman's Associated Condensed Milk Co. will erect a 110x170-ft. plant estimated to cost $75,000. J. B. Monnette is interested.

✚San Francisco, Calif.—A box factory will be erected for the San Francisco Box Co. at North Point and Jones St. by ANDREA SCARBORO, at an estimated cost of $40,000.

San Francisco, Calif.—The California Fruit Canners' Association, 120 Market St., will erect a five-story cannery at Stockton and Bay St., at an estimated cost of $500,000.

Hamilton, Ont.—The Grasseli Chemical Co. will build a brick addition to its plant to cost $27,000.

Owen Sound, Ont.—The City Council, C. Gordon, Clk., is having plans prepared for a grain elevator with a capacity of 500,000 bu. J. H. Tromanhauser & Co., Temple Bldg., Toronto, Ont., is Arch.

Tillsonburg, Ont.—Bordens Condensed Milk Co. contemplates the erection of a steel and sandlime brick, cold-storage building. J. Conley is Supt.

Revelstoke, B. C.—M. Entin will erect a laundry to cost $20,000.

Nelson Lagoon, Alaska—A movement has been inaugurated by E. S. McCord, Bellingham, Wash., to erect a salmon-canning plant at an estimated cost of $150,000.

FEDERAL GOVERNMENT WORK

NOTE—A recent low bid was rejected because it was unaccompanied by a certified check. In the futire the office,of the Supervising Architect will be most strict about certified checks.

Repairs to Post Office—Concord, N. H.—Bids will be received until 3 p.m., May 17, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for making extensions and alterations to the post office at Concord. Plans are on file with the Custodian, Concord, and with Oscar Wenderoth.

✚Post Office—Greenfield, Mass.—The contract has been awarded to the WESTCHESTER ENGINEERING CO., White Plains, N. Y., at $61,231, for constructing a post office at Greenfield. Bids were opened Mar. 15. Noted Feb. 11 and Mar. 18.

Building Improvements—Newport, R. I.—Bids were received Apr. 10 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C. for (1) work complete, (2) roofing, (3) sheet metal work, (4) painting, (5) heating, (6) lighting, (7) plumbing, (8) per sq.yd. wood flooring, and (9) stairways: W. G. Cornell Co., Southern Bldg., Washington, D. C., (1) $29,999; John W. Danforth Co., 72 Ellicott St., Buffalo, N. Y., (5) $13,075; Rhode Island Supply & Engineering Co., Providence, R. I., (5) $8690; Charles H. Williston Co., 171 Pleasant St., Fall River, Mass., (2) $3988; Farber Cornice Works, 9 Timothy St., Pawtucket, R. I., (2) $3424, (3) $3365; J. T. Maguire Co., 118 Spring St., Pawtucket, R. I., (2) $3348; New York Roofing Co., 535 East 19th St., New York, N. Y., (2) $3284, (3) $2616; John Gillies, 352 Spring St., Newport, R. I., (2) $3515, (3) $3408; John R. Bowher, 19 Downe St., Boston, Mass., (6) $3170; General Fire Extinguisher Co., 275 West Exchange, Providence, R. I., (5) $9150; John H. Scannivan, 250 Thames St., Newport, R. I., (6) $2997; Ray B. Wilson, Jr., 14 West Broadway, Newport, R. I., (7) $8654; Neptune B. Smyth, Inc., 413 East 34th St., New York, N. Y. (4) $1763; Whitall Electric Co., 42 Main St., Westerly, R. I., (6) $2923; Newport Contracting & Engineering Co., 2700 Washington Ave., Newport News, Va., (1) $32,404, (5 and 7) $17,830; Darling-Slade Construction Co., 52 Bridge St., Newport, R. I., (1) $40,954, (2) $3174, (3) $2150, (4) $3500, (5) $15,623, (6) $5822, (7) $9354, (8) $1.98, (9) $2000; M. N. Cartier Co., 289 Canal St., Providence, R. I., (2) $2924, (3) $2610; G. M. Parks Co., 970 Main St., Fitchburg, Mass., (5) $11,237; Ehret Roofing & Mfg. Co., 407 Lombard St., Baltimore, Md., (2) $2900, (3) $3100; W. A. Murtfield Co., 161 Devonshire St., Boston, Mass., (2) $3138, (3) $3386; Noland Clifford Co., Inc., Newport News, Va., (5 and 7) $28,940; Improved Plastic Slate Roofing Co., 73 Fremont St., Boston, Mass., (2) $3600, (3) $3843; P. J. Murphy & Co., 161 Spring St., Newport, R. I., (7) $8319 and Architects' Roofing Co., 45 Battery March St., Boston, Mass., (2) $3100. Noted Mar. 25.

Electric Traveling Cranes—Newport, R. I.—Bids were received Apr. 10 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing one 2½ ton, 3-motor electric traveling crane and one movable bridge or platform on wheels in the assembly shop, and a similar crane in the Torpedo Storehouse at the Newport Naval Torpedo Station as follows: Cleveland Crane & Engineering Co., Wicklif, Ohio, $5020; Whiting Foundry & Equipment Co., Harvey, Ill., $4825, alternate bid, $4725; and Manning, Maxwell & Moore, 118 West 40th St., New York, N. Y., $3950. Noted Mar. 25.

✚✚Dredging—Providence, R. I.—The contract has been awarded to P. SANFORD ROSS, Jersey City, N. J., at $91,833, for dredging in Providence Harbor. Noted Mar. 4 and Apr. 8.

Residence—Cape Vincent, N. Y.—Bids will be received until 2 p.m., Apr. 29, by Commissioner of Fisheries, Dept. of Commerce, Washington, D. C., for constructing a superintendent's residence at Cape Vincent.

Building—Philadelphia, Penn.—Bids will be received until 2 p.m., May 1, by the Commanding Officer, Frankford Arsenal, for one 2-story brick and reinforced-concrete building and a tin shop at the Frankford Arsenal.

★Sewer Work—Washington, D. C.—Bids will be received until 2 p.m., Apr. 21, by the Commissioners of the District of Columbia, Room 509, District Bldg., for constructing 1000 ft. of 3-ft. sewers. Plans are on file with the Chief Clerk, Engineer Dept., Room 427, District Bldg.

Mess House—Edenton, N. C.—Bids will be received until 2 p.m., Apr. 20, by the Commissioner of Fisheries, Dept. of Commerce, Washington, D. C., for constructing a mess house at the Edenton fisheries station.

Storehouse—Ft. Screven, Ga.—Bids will be received until 11 a.m., May 5, by the Constructing Quartermaster for constructing a storehouse.

Post Office—Live Oak, Fla.—Bids were received Apr. 6 by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Live Oak, (a) using limestone for all exterior stonework, except where granite is required, (b) using sandstone for all exterior stonework, except where granite is required, as follows: F. W. Long & Co., Jacksonville, Fla., (a) $73,543; George A. Clayton, Atlanta, Ga., (a) $51,000, (b) $51,350; H. S. Richards & Co., Bainbridge, Ga., (a) $52,347, (b) $53,000; George W. Stiles Construction Co., Chicago, Ill., (a) $53,467; Potter's Lumber Co., East Liverpool, Ohio, (a) $48,400, (b) $48,900; Howard & Wread, Barto, Fla., (a) $48,447, (b) $48,697; Westchester Engineering Co., White Plains, N. Y., (a) $47,900, (b) $50,000; George A. Shaul, Seneca, Kan., (a) $53,692; C. H. Turner Co., Pensacola, Fla., (a) $60,980, (b) $61,180; Algernon Blair, Montgomery, Ala., (a) $49,440, (b) $50,00; Rogers & Kaiser, Chicago, Ill., (a) $53,936, (b) $54,771; J. L. Crouse, Greensboro, N. C., (a) $51,072, (b) $52,500; S. L. Fulghum, Pensacola, Fla., (a) $54,187, (b) $54,387; R. P. Farnsworth & Co., Owensoro, Ky., (a) $52,900, (b) $53,200; Barnes Bros., Logansport, Ind., (a) $59,000; J. F. Jenkins, Ocala, Fla., (a) $54,450, (b) $56,000; John G. Unkefer & Co., Minerva, Ohio, (a) $53,480, (b) $54,450; Colonial Construction & Supply Co., Charlottesville, Va., (a) $53,535, (b) $54,035; Frank Weakley, Canton, Ohio, (a) $54,963, (b) $55,500 and William H. Fissell & Co., New York, (a) $46,700, (b) $47,700. Noted Feb. 25.

★Post Office—Laurel, Miss.—Bids will be received until 3 p.m., May 18, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete a post office at Laurel.

✚Earthwork—New Orleans, La.—Contracts have been awarded to GIBSON, HAMILTON & CO., New Orleans, for Lower Tensas Levee District, Hard Times Levee, Districts Nos. 1 and 2 at $36,129 and to DAMERON WHITE CO., Hibernia Bank Bldg., New Orleans, for Atchafalaya Levee District, Lecour Levee, Lot No. 2, at $12,008. Noted Mar. 18 and Apr. 8.

Dredging—Jeanerette, La.—Bids will be received until 11 a.m., May 3, by Maj. Edward H. Schults, 325 Custom House, New Orleans, for dredging in Bayou Teche, between Keystone Lock and Jeanerette.

★Steel Dump Scows—Louisville, Ky.—Bids will be received until noon, May 13, by Maj. J. C. Oakes, U. S. Engineer Office, for two steel dump scows.

★Dredging—Detroit, Mich.—Bids will be received until Apr. 28 by Lieut.-Col. Mason M. Patrick, District Engr., Federal Bldg., Detroit, for dredging ship channel in Lake St. Clair, Mich.

★**Riprap**—Harbor Beach, Mich.—Bids will be received until noon, May 11, by Lieut.-Col. Mason M. Patrick, District Engr., Federal Bldg., Detroit, for furnishing and placing stone riprap along lake face on main breakwater, Harbor Beach.

★**Cribs and Superstructures**—Harbor Beach, Mich.—Bids will be received until noon, May 12, by Lieut.-Col. Mason M. Patrick, District Engr., Federal Bldg., Detroit, for constructing and placing two timber cribs and replacing with concrete timber superstructures on breakwater, Harbor Beach.

★**Lock Improvement**—Sault Ste. Marie, Mich.—Bids will be received until noon, May 15, by Lieut.-Col. by Mason M. Patrick, District Engr., Federal Bldg., Detroit, Mich., for constructing concrete masonry for the fourth lock at Sault Ste. Marie.

✚**Brick Mess Hall**—Pierre, S. D.—The contract has been awarded to J. H. STEVENS, Chamberlain, N. D., at $16,842, for constructing a brick mess hall at the Pierre Indian School. Noted Mar. 11 and Apr. 8.

Excavation and Concrete Work—Browning, Mont. — Bids will be received until 2 p.m., Apr. 30, by the United States Reclamation Service, Great Falls, Mont., for constructing structures on the St. Mary storage unit, Milk River project. The work includes excavation, concrete work and paving.

Canal Work—Saco, Mont.—Bids will be received until 2 p.m., May 12, by A. P. Davis, Ch. Engr., United States Reclamation Service, Malta, Mont., for 95,000 cu.yd. of canal excavation near Saco.

★**Revetment**—Atherton, Mo.—Bids will be received until noon, May 10, by Lieut. Col. Herbert Deakyne, U. S. Engineer Office, Kansas City, Mo., for 9000 ft. of standard revetment on the Missouri River near Atherton.

★**Dike**—Cement City, Mo.—(Courtney post office)—Bids will be received until noon, May 10, by Lieut. Col. Herbert Deakyne, U. S. Engineer Office, Kansas City, Mo., for constructing 4200 ft. of standard three-row timber dike on the Missouri River near Cement City.

Post Office, Court House and Custom House—Corpus Christi, Tex.—(extension of date from Apr. 19)—Bids will be received until 3 p.m., May 11, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for constructing a post office, court house and custom house at Corpus Christi. Noted Mar. 11.

Canal Work—Payson, Utah—Bids were received Apr. 8 by the United States Reclamation Service, Provo, for canal work near Payson as follows: Green Construction Co., Tooele, $14,300 (low bidder); Hedenberg, Olson & Gee, Provo, $16,201; S. Hutchings, Springville, $17,356 and the Wasatch Grading Co., Salt Lake City, $29,574. Noted 18.

Addition to Dormitory—Tuba, Ariz.—Bids were received by the Commissioner of Indian Affairs, Dept. of Interior, Washington, D. C., for constructing an addition to the stone dormitory for girls at the Western Navajo School as follows: W. B. Lovell, Minneapolis, Minn., $27,500; T. C. Hurst, Phœnix, $33,935; Hetzel-Winget Co., Grant Bldg., Los Angeles, Calif., $25,250, and Horton-Smith, Montezuma, Iowa, $30,989. Noted Mar. 11.

✚**Levee Work**—Yuma, Ariz.—The contract has been awarded to E. F. SANGUINETTI, at $80,000, by the Department of the Interior for placing 80,000 cu.yd. of rock on the levee below Andrade.

✚**Barges**—St. Johns, Ore.—The contract for building two government barges for service on the Coquille River has been awarded to the ST. JOHNS SHIPBUILDING CO., St. Johns, at $7745.

Pipe—Los Angeles, Calif.—Bids will be received until 2 p.m., May 4, by the United States Reclamation Service, Los Angeles, for riveted steel pipe and for constructing the Strawberry Valley project.

Bridge—Needles, Calif.—(Official)—See item under Bridges.

Water and Sewer Systems—San Diego, Calif.—Bids will be received until 11 a.m., May 15, by H. R. Stanford, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing water and sewer systems at the Naval Radio station, San Diego.

★**Steel Structure**—Balboa, Panama—Bids will be received until 10:30 a.m., May 3, by Maj. F. C. Boggs, Gen. Pur. Officer of the Panama Canal, for furnishing or furnishing and erecting structural steel for shed on pier No. 18, Balboa Terminals.

MISCELLANEOUS

✚**Dam**—Peterboro, N. H.—The White Mills has awarded a contract to the FISKE-CARTER CONSTRUCTION CO., Worcester, Mass., for the construction of a reinforced-concrete dam, 260 ft. long and 26 ft. high.

Concrete Bulkheads—Boston, Mass.—It is reported that the Metropolitan Park Commission is considering the construction of concrete bulkheads, one at Revere Beach, to cost $30,000 and one at Nantasket Beach, to cost $6000.

Motor Fire Apparatus—Brookline, Mass.—The Town Council has appropriated $16,000 for the purchase of additional motor fire apparatus.

Piers and Bridge—Northampton, Mass. — (Official) — Bids will be received until noon, May 4, by the Commissioners of Hampshire County for reconstructing two piers and for repairing the superstructure of the bridge across the Connecticut River between Northampton and Hadley.

Fire Apparatus—Pittsfield, Mass.—(Official)—Bids will be received by Frederick H. Purches, Clk., Fire Dept. Comn. until noon, Apr. 22, for furnishing a combination chemical and hose wagon, a service truck, tractor, and hose wagon.

Wharf, Etc.—Providence, R. I.—The State Harbor Commission has granted permission to the Huasteca Petroleum Co., Inc., Los Angeles, Calif., to build a wharf in front of its property. The proposed wharf will be 630 ft. long and 27 ft. wide. This company also plans to build six oil tanks.

Guard Railing—Hartford, Conn.—Bids will be received by Charles J. Bennett, State Highway Comr., for constructing wood guard railing as follows: Middletown, 1100 lin.ft., Hartford-Saybrook turnpike; Haddam, 1122 lin.ft., Hartford-Saybrook turnpike; New Britain, 926 lin.ft., Stanley St.; Bristol, 500 lin.ft., Park St.; Bolton, 4000 lin.ft., Andover Rd.; Danbury, 2232 lin.ft., Sugar Hollow Rd.; Southbury, 1200 lin.ft. Woodbury Newtown Rd.

Interior Furnishings—Hartford, Conn.—Bids were received by the Board of Contract and Supply on Mar. 30 for the furnishing of equipment for the new municipal building. These bids were referred to the Municipal Building Commission for recommendation. The bidders on the two main propositions are as follows: (a) furniture, (b) steel: Tiffany Studios, New York, (a) $62,300, (b) $28,595; P. J. Carlin Construction Co., New York, (a) $60,030, (b) $29,500; Wollaeger Mfg. Co., Milwaukee, Wis., (a) $66,000; Nachtagall Mfg. Co., Grand Rapids, Mich., (a) $59,990; Cobb-Macey-Dohme, New York, (a) $62,440; J. B. Greenhut Co., New York, (a) $69,584; Bloomingdale Bros., New York, (a) $61,009; (b) $31,500; O. H. Bauer, New York, (a) $60,789; Irving & Casson-A. H. Davenport Co., Boston, Mass., (a) $65,460; Doten-Dunton Desk Co., Cambridge, Mass., (a) $62,237; W. & J. Sloane, New York, (a) $59,450; Paine Furniture Co., Boston, Mass., (a) $61,695; General Fire Proofing Co., New York, (b) $28,595; Canton Art Metal Co., New York, (b) $30,306; O. M. Edwards Co., Hartford, Conn., (b) $29,500; Van Dorn Iron Works, New York, (b) $27,737; Library Bureau, Hartford, Conn., (b) $31,589; Art Metal Construction Co., Jamestown, N. Y., (b) $31,000; Fireproof Furniture & Construction Co., (b) $37,280; Crown Metal Construction Co., Hartford, Conn., (b) $27,500; Watson Mfg. Co., (b) $34,000; Merritt & Co., Camden, N. J., (b) $38,673. Joseph Buths is Secy., Board of Contract and Supply.

✚**Concrete Pier**—Greenport, N. Y.—According to press reports, Wells & Jennings have awarded a contract to HARRY TUTHILL, Greenport, to build a concrete pier into Greenport Harbor.

Pumping Engines—New York, N. Y.—(Borough of Manhattan)—The following are the bids received by the Fire Department on Apr. 12 for furnishing and delivering six self propelled gasoline pumping engines: Waterous Engine Co., $46,640; American La France Fire Engine Co., $44,664; Ahrens Fox Fire Engine Co., Cincinnati, Ohio, $43,338; Seagreave Co., $50,400.

Subway—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the official totals of the bids received by the Public Service Commission for the construction of Section No. 4 of Routes Nos. 4 and 36, that part of the Broadway subway lying in Seventh Ave. between 51st and 59th St.: Litchfield Construction Co., 23 Flatbush Ave. (Borough of Brooklyn), $1,937,509; Rodgers & Hagerty, Inc., $2,089,457; T. A. Gillespie Co., $2,159,064; Degnon Contracting Co., $2,165,890; Mason & Hanger, $2,217,955; J. F. Cogan Co., $2,221,561; Oscar Daniels Co., $2,277,269; Godwin Construction Co., $2,298,244; Inter-Continental Construction Corporation, $2,318,778; Norton & Gorman Contracting Co., $2,343,687; Smith, Hauser & MacIsaac, Inc., $2,442,079; E. E. Smith Contracting Co., $2,447,695; Underpinning & Foundation Co., $2,593,821. Noted Apr. 1.

✚**Motor Trucks**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing nine 1½-ton motor trucks complete, to the Department of Water Supply, Gas and Electricity, has been awarded to the AUTO CAR SALES CO., at $15,810. Noted Mar. 18 and Apr. 1.

★✚**Seawall Jetty and Bulkhead**—Bradley Beach, N. J.—The contract for constructing the seawall, jetty and bulkhead has been awarded to the LOGAN CONSTRUCTION CO., 11 Broadway, New York, N. Y. Noted Mar. 18.

Meadow Development—Newark, N. J.—The State Legislature has been requested by the Board of Works to grant $500,000, in addition to the $2,000,000 already appropriated, for improving the meadows. The plans provide for a bridge over the Central R.R. at Port Ave., a freight transfer shed, sewers, street paving, and a channel 400 lin.ft. Morris R. Sherrard is Ch. Engr.

Bulkhead—Stone Harbor, N. J.—Press reports state the Borough Council is considering an issue of $160,000 in bonds for the purpose of constructing a bulkhead from 83rd to 111th St. along the ocean front. Jetties are to be constructed at nine streets.

✚**Platform Elevators**—Philadelphia, Penn.—(Official)—The contract for installing platform elevators for the Southwark Piers has been awarded by the Department of Wharves, Docks and Ferries to the ALBRO-CLEM ELEVATOR CO., Seventh and Glenwood Ave., Philadelphia, Penn., at $13,500. John Meigs is Assist. Dir., Dept. of Wharves, Docks and Ferries.

Police and Fire Signalling Apparatus—Scranton, Penn.—Bids will be received by F. K. Derby, Dir. of Pub. Safety, until 11 a.m., Apr. 17, for installing fire alarm and police signalling apparatus in the Central City fire limits.

Excavation—Shennandoah, Penn.—(Official)—Bids will be received by the East Bear Ridge Colliery Co., until noon, Apr. 20, for removing about 300,000 cu.yd. of dirt and rock on the bed of the company's mine. W. J. James, Mahonoy Plane, Penn., is Secy.

★**Concrete Wall**—Wilkes-Barre, Penn.—(Official)—Bids will be received by Frederick H. Gates, City Clk., until noon, Apr. 30, for building a concrete retaining wall along Solomon's Creek between Franklin and Vulcan St.

Retaining Wall—Wilkes-Barre, Penn.—Bids will be received by Frederick H. Gates, City Clk., until Apr. 16 for constructing a stone retaining wall on the easterly side of Park Ave., from Metcalf to Dana St. and concrete steps through the park, from Park Ave. to Hancock St. Noted Mar. 18.

Park Improvements—Hagerstown, Md.—A bond issue of $65,000 has been voted by the city for park improvements. J. B. Ferguson is City Engr.

✚**Drainage**—Goldsboro, N. C.—According to press reports the contract for constructing drainage canals in Nahunta and Slough Swamps, Drainage District No. 2, has been awarded by the Commissioners of Wayne County to THOMPSON & MOSLEY, Greensboro, at about $90,000. This work will reclaim about 6000 acres of land.

Drainage—Newbern, N. C.—Bids will be received until May 1, for drainage improvements, which provide for drainage canals, sewers, inlets, tide gates, levees, etc. The work requires about 37,000 cu.yd. of excavation. R. R. Eagle, 409 Elks Temple, Newbern, is Engr.

Bids will be opened the same time and place for the purchase of $20,000 drainage district bonds.

✚Wharves—Jacksonville, Fla.—The contract for the construction of timber marginal wharves has been awarded by the Board of Port Commissioners to HILLYER & SPERRING, Jacksonville, at $12,310. Noted Mar. 18 and Oct. 1.

Dredging—Winter Haven, Fla.—Bids will be received until Apr. 24, by the Board of Directors, Twenty Lakes Boat Course Club, for dredging Twenty Lakes Boat Course Canal. The Atlantic Engineering Co., Savannah, Ga., is the Engr. L. Burns is Chn. Board of Directors.

Drainage—Darrow, La.—Bids will be received by B. J. Vega, Secy. Bd. of Comrs. of the Bayou Conway Drainage Dist. of the Parish of Ascensin, until noon, May 4, for the excavating of drainage canals in that district, approximating 1,000,000 cu.yd.

Ditch—Bucyrus, Ohio—Bids will be received by L. P. Michaelis, County Surveyor, for constructing Mud Run Ditch.

Creek Improvements—Canton, Ohio—It is reported that the County Engineer has completed surveys for improving Sugar Creek.

✚★Elevators—Cincinnati, Ohio—The contract for furnishing 12 elevators for the Hamilton County courthouse, has been awarded to the STANDARD PLUNGER ELEVATOR Co., 243 Stafford St., Worcester, Mass., at $103,885.

Creek Improvements—Alexandria, Ind.—A petition has been filed requesting that Pipe Creek be improved by increasing the depth of the channel four ft. between Gaston and Alexandria. The estimated cost is $100,000.

Pumping Station—Fountaintown, Ind.—The Tidewater Oil Co., Shelbyville, Ind., will erect a pumping station in connection with its pipe line, to cost about $500,000.

Wharf—New Albany, Ind.—Plans are being prepared by Samuel T. Mann., City Engr., for the construction of a river wharf.

Dredging—Corunna, Mich.—It is reported that the Webb Creek and Hooley drains, near Durand, will be dredged this summer. The total length of these drains is about 12 miles. Alonzo Griffin is County Drain Comr.

Fire Stations—Chicago, Ill.—(Official)—The city has voted a bond issue of $663,000 for the purpose of purchasing sites and constructing new fire stations also for improving the present stations.

Bathing Beaches and Playgrounds—Chicago, Ill.—A bond issue for $600,000 has been voted by the citizens for improving the bathing beaches and laying out playgrounds. John Ericson is City Engr.

Natatorium—Milwaukee, Wis.—A bond issue of $60,000 for the construction of a public natatorium in the 23d Ward failed to carry at the special election on Apr. 6.

Levee and Retaining Wall—Muscatine, Iowa—The City Council has appropriated $12,000 for levee improvements. C. H. Young is City Engr.

✚Ditch—Le Sueur, Minn.—The contract for constructing County Ditch No. 40 has been awarded to JAMES McKILLIP, Waterloo, Iowa, at $17,324. Noted Mar. 25.

Ditches—Slayton, Minn.—Press reports state that several county and judiciary ditches are to be constructed in Murray County this year. The Badger ditch, near Slayton, will require an expenditure of about $250,000. P. L. Minder is County Engr.

Reclamation Work—Riverton, Wyo.—The Farmers' Co. recently secured water rights for what is known as LeClair Ditch and plants to construct a canal system to reclaim 20,000 acres of land.

Improvements to Exposition Grounds—Kansas City, Mo.—The Mid-Continent Exposition Club is having plans prepared for a club house, exposition buildings, two mile automobile speed way of wood block, one mile dirt race track, and grounds for golf, polo, baseball and tennis. The total cost is estimated at $1,000,000. Root & Siemans, 1202 Scarritt Bldg., Kansas City, are the Archs. W. A. Rule, 4079 Republic Bldg., is Secy. of the Club.

Creek Improvements—Kansas City, Mo.—An expenditure of $3,995,000 has been recommended by the City Council for improving Bush Creek. About $100,000 is for improving the sewage condition. W. M. Barclay is City Engr.

Drainage—Osceola, Ark.—Bids will be received by the Board of Commissioners, Grassy Lake and Tyronza Drainage District, No. 9, Mississippi County, until Apr. 14, for the following: Contract No. 29-A, 7300 cu.yd. of ditch excavation; No. 29-B, installation of 62 lin.ft. 12-in. sewer, 50 lin.ft. 18-in. and 198 lin.ft. 24-in., with 20 cu.yd. concrete bulkheads; No. 31, 21,000 cu.yd. levee embankment, about eight miles northeast of Marked Tree; No. 33, constructing two wooden bridges containing about 600 ft. pile trestle, across Ditch No. 1, about four miles northeast of Marked Tree. The Morgan Engineering Co., Memphis, Tenn., is Engr. S. E. Simonson is Chn., Board of Commissioners.

Park Improvements—Longmont, Colo.—The St. Vrain Valley Fair Association and the City Park Board have completed plans for improving Longmont Driving Park.

Dam—Costilla, N. M.—Bids will be received by Franklin E. Brooks, Pres., Costilla Estates Development Co., 1221 First National Bank, Denver, Colo., until noon, Apr. 24, for the construction of the Costilla dam, in Taos County. The work involves the excavation of 300,000 cu.yd. and provides for 3600 cu.yd. of reinforced-concrete work, etc. Specifications may be obtained of J. C. Ulrich, Engr., 210 West Second Ave., Denver, Colo.

Improving Grounds—Salt Lake City, Utah—The City Commissioners and State Capitol Commission contemplate improving the State Capitol grounds. The work will include the removal of about 500,000 cu.yd. of earth.

Dam—Salt Lake City, Utah—Bids will be received by the Board of Commissioners until 10 a.m., Apr. 21, for the construction of a dam at Twin Lakes, Big Cottonwood Cañon. Karl A. Scheid is City Recdr.

Ditches, Drainage—Everett, Wash.—It is reported that plans have been completed by the Coast Engineering Co., Everett, for the construction of about 9¾ miles of open ditches in Drainage Dist. No. 4, which involves about 35,000 cu.yd. of excavation. The estimated cost is $50,000. This work includes the drainage of about 56,000 acres between Monroe and Snohomish.

✚Dikes—South Bend, Wash.—The contract for constructing a system of dikes in Diking Dist. No. 2 has been awarded to the COWLITZ CO., Portland, Ore., at $61,500. Other bids were the Willapa Construction Co., Raymond, $63,500, and Hans Pederson Construction Co., Seattle, $63,000. H. A. Bibbs is Engr. of the District. Noted Mar. 18.

Irrigation—Medford, Ore.—It is reported that Wellborn Beeson, Tolent, Ore., is interested in an irrigation system, which will furnish water for about 1000 acres, at a cost of $16,000. By constructing a five-mile ditch the water can be carried through Phoenix Mill Ditch from Bear Creek.

Flume—Placerville, Calif.—The Western States Gas & Electric Co. will expend $15,000 in enlarging the capacity of the American River flume. H. H. Bennett is Local Mgr.

River and Harbor Improvements—Ottawa, Ont.—Appropriations for river and harbor improvements in Ontario include the following: Bayfield, repairs to piers, $3000; Elk Lake, wharf improvements and repairs, $800; Hamilton, harbor improvements, $250,000; Kingston, harbor improvements, $128,000; Kingston Royal Military College, repairs to wharves, $2000; Port Elgin, repair to breakwater, $10,500; Providence Bay, repairing and strengthening wharf, $3200.

Fire Engines, Tractors and Equipment—Ottawa, Ont.—The City Council will apply to the Legislative Assembly for permission to borrow $50,000 for the purpose of purchasing fire engines, tractors and equipment for the fire department.

Breakwater—Port Elgin, Ont.—The Government Department of Public Works will erect a breakwater to cost $10,500. R. C. Desroschers is Secy. of the Government Bd.

Subway—Toronto, Ont.—Plans have been approved by the Dominion Railway Board for the construction of a subway under the Grand Trunk R.R. tracks at the proposed extension of Wilton Ave., to connect with Dickens St. The Grand Trunk System is to pay $10,000 and the city the balance, with the exception of $5000 granted by the Government Crossing fund.

Reclamation Work—Vancouver, B. C.—It is reported that the Dominion Government has granted to the Vancouver Harbor Commission property for the reclamation of tide flats in the center of False Creek. The reclaimed area will be inclosed by a seawall and bulkhead.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Boston, Mass.—Bids will be received until Apr. 20 by J. P. Lomasney, Chn. of Schoolhouse Com., City Hall Annex, for the construction of a two-story school. Funk & Wilcox, 120 Boylston St., is Arch. Estimated cost, $80,000.

Boston, Mass.—Bids will soon be received by R. D. Lynch, Supt. of Public Bldgs., City Hall, for the construction of a 11-story addition to the City Hall. The estimated cost is $225,000. H. H. Atwood, 61 Alban St., Dorchester Dist., is Arch.

Cambridge, Mass.—Bids will soon be received by Edward T. P. Graham, Arch., 20 Beacon St., Boston, for the construction of a group of buildings for the Cambridge City Hospital. Estimated cost, $100,000. Charles S. Cahill, M. D., Cambridgeport (Boston post office) is Chn. of Trustees. Noted Apr. 1.

Dedham, Mass.—The citizens voted Apr. 4 to appropriate $130,000 for the construction of a high school on East Auburn and Mt. Vernon St.

✚Lawrence, Mass.—The contract for the construction of a theater for the Toorney & Demara Amusement Co. has been awarded to WHITNEY & CO., Boston. Estimated cost, $200,000.

Lawrence, Mass.—Plans are being revised by T. E. Sheehan, Arch., Tremont St., Boston, for the construction of a two-story, 68x90-ft. parochial school for Holy Trinity Church. Estimated cost, $40,000.

Springfield, Mass.—Plans are being prepared by E. C. & G. C. Gardner, Arch., 33 Lyman St., for the construction of a three-story, 70x100-ft. building for the Springfield Post, G. A. R. Estimated cost, $50,000.

✚Worcester, Mass.—The contract for the construction of a three-story, 88x126-ft. gymnasium for the Worcester Polytechnic Institute has been awarded to the CENTRAL BUILDING CO., 58 Front St., and not to the Edward F. Miner Building Co., 25 Foster St., as reported in the issue of Mar. 18. Estimated cost, $100,000.

Worcester, Mass.—Bids will soon be received for the construction of a three-story addition to North High School. The estimated cost is $210,000. John T. Simpson, 1224 Essex Bldg., Newark, N. J., is Arch. and George C. Halcott is Supt. of Pub. Bldgs. Noted Oct. 29 and Jan. 21.

✚Providence, R. I.—(Official)—HORTON & HEMENWAY, 86 Weybosset St., has been awarded the contract for the construction of a school on Laurel Hill Ave. Clarke & Howe, 1304 Turks Head Bldg., is Arch. Noted Jan. 7, Mar. 11 and 25.

New Haven, Conn.—Bids will be received after May 1 by L. W. Robinson, Arch., 42 Church St., for the construction of a building for the New Haven Hospital. Estimated cost, $500,000. Noted Dec. 3 and 17 and Jan. 14.

Windsor, Conn.—Bids are being received by Murphy & Dana, Arch., 331 Madison Ave., for the construction of a three-story school for Loomis Institute. Estimated cost, $200,000.

Albany, N. Y.—Plans are being prepared by R. D. Macpherson, Assoc. Arch., Askay Bldg., for the construction of a parochial school for St. Vincent de Paul's Church, Madison Ave. and Partridge St. Estimated cost, $50,000. Noted Jan. 14.

Buffalo, N. Y.—Plans are being prepared by Howard L. Beck, City Arch., for the construction of Public School No. 31 on Emslie and William St. Estimated cost, $400,000.

Holtsville, N. Y.—Nathan Myers, Arch., 7 Nelson Pl., Newark, N. J., has prepared plans for the construction of a two-story tuberculosis hospital. Estimated cost, $50,000. Dwight L. Corwin, Riverhead, is Clk of Bd. of Supervisors. Noted Jan. 14.

Kings Park, N. Y.—(Official)—Bids received Mar. 18 by the State Hospital Commission for the construction of an addition to the Kings Park State Hospital have been rejected as the lowest bid exceeded the amount appropriated. Lewis F. Pilcher, Capitol, Albany, is State Arch. Noted Mar. 11 and 25.

Mt. Vernon, N. Y.—McKenzie, Voorhees & Gmelin, Arch., 1123 Broadway, New York, is preparing plans for the construction of a three-story, 50x135-ft. telephone exchange building for the New York Telephone Co. Estimated cost, $50,000.

New York, N. Y.—(Borough of Brooklyn)—R. Thomas Short, Arch., 5 West 29th St., New York, is preparing plans for the construction of a motion picture theater at Flatbush Ave. and Canarsie Lane for A. H. Schwartz, 239 East 25th St., New York. Estimated cost, $150,000.

New York, N. Y.—(Borough of Manhattan)—Henry D. Downs plans to construct a two-story theater at 135th St. near Lenox Ave. Estimated cost, $45,000. Jardine, Hill & Murdock, 3 West 29th St., is Arch.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by McKim, Mead & White, Arch., 101 Park Ave., for the construction of a three-story, 175x262-ft. University Hall for Columbia University, 116th St. and Amsterdam Ave. Estimated cost, $100,000.

✚**New York, N. Y.**—(Borough of Queens)—(Official)—The contract for the construction of Public School No. 93 on Forest Ave. between Woodbine and Madison St. has been awarded to the T. A. CLARKE CO., 122 Livingston St., Brooklyn, at $267,600. Noted Mar. 25, and under Borough of Manhattan, Feb. 4.

✚**Rochester, N. Y.**—The contract for the construction of a commercial building on Clinton Ave. for the Howe & Rogers Co., has been awarded to the FERRO CONCRETE CONSTRUCTION CO. Estimated cost, $175,000. Crandall & Strobel, is Arch.

Utica, N. Y.—Bids will be received about May 1 for the construction of a two-story, 128x200-ft. school with a one-story, 40x154-ft. annex. Estimated cost, $140,000. E. B. Odell is Chn. of Bldg. Com. and Gouge & Ames, 70 Genesee St., is Arch. Noted Mar. 18.

Atlantic City, N. J.—The Board of Education plans to construct a two-story school addition, to cost about $150,000. Stout & Riebenach is Arch.

Englewood, N. J.—The Board of Education plans to construct a two-story high school at Englewood. Estimated cost, $150,000. Graham Sumner is Pres. of Bd.

Harrison, N. J.—John T. Rowland, Jr., Arch., 98 Sipp Ave., Jersey City, and Joseph W. Baker, Arch., 11 North Fourth St., have prepared plans for the construction of a three-story parochial school for the Church of the Holy Cross. Estimated cost, $90,000. Noted Mar. 18.

Millville, N. J.—The two lowest bids received for the construction of a two-story, 87x160-ft. school were submitted by Berry, Goodwin & Co., Philadelphia, Penn., at $69,750, and James H. Wells, Heed Bldg., Philadelphia, Penn., at $71,320. Arnold H. Moss, 136 South Fourth St., Philadelphia, Penn. is Arch. Noted June 4, July 30, Sept. 10 and Apr. 1.

Newark, N. J.—Bids will be received until Apr. 20 by the Board of Trustees of the Essex County Parental Home for the construction of a $50,000 school. John H. Ely and Wilson C. Ely, are Archs. Noted Mar. 25.

Perth Amboy, N. J.—The Board of School Estimate is considering an appropriation of $140,000 for the construction of additions to the High School and Public School No. 9, for the Board of Education.

Trenton, N. J.—Bids will be received until Apr. 29 by the Board of Education for the construction of a school to be known as the Junior High School No. 1. William A. Poland, 9 South Stockton St., is Business Mgr. Noted Sept. 24.

West New York, N. J.—Plans are being prepared by Gregory B. Webb and Karl F. J. Seifert, Assoc. Arch., 104 West 42d St., New York, N. Y., for the construction of a three-story, 100x200-ft. public school. Estimated cost, $185,000. E. J. Stilz, 687 Bergenline Ave., is Pres. of Bd. of Education.

Hanover, Penn.—A bond issue of $85,000 has been voted by the citizens of Hanover. The proceeds will be used for the construction of a school. Noted Apr. 8.

Harrisburg, Penn.—J. M. McCollum, Consult. Arch., Berger Bldg., Pittsburgh, has prepared plans for the construction of a State Inebriate Asylum for Cumberland County. Estimated cost, $300,000. F. J. Hall, 1601 North Front St., is Secy. Pub. Charities Com.

Herman, Penn.—Plans are being prepared by John T. Comes and John E. Kauzar, Arch., Renshaw Bldg., Pittsburgh, for the construction of a three-story building for St. Fidelis College. Estimated cost, $45,000.

Lansford, Penn.—An appropriation of $175,000 has been made by the School Board for the construction of a high school. Clyde S. Adams, 1233 Arch St., Philadelphia, is Arch. Noted Feb. 4.

New Castle, Penn.—See item under "Light, Heat and Power."

New Wilmington, Penn.—The Trustees of Westminster College plan to construct a $75,000 gymnasium. R. M. Russell is Pres.

✚**Philadelphia, Penn.**—HENRY E. BATON, Tenth and Sansom St., at $116,797, has been awarded the contract for the construction of additions to the prison at 11th and Reed St. Philip H. Johnson, Land Title Bldg., is Arch.

Philadelphia, Penn.—Work will soon be started on the construction of a 13-story apartment house at Walnut and Moravian St. Estimated cost, $750,000. Frederick W. Webber, Morris Bldg. is Arch. Noted Mar. 11.

SEWAGE DISPOSAL WORKS, YORK, PENN.

✚Bids were received by the City Council Apr. 2 for the construction of a sewage disposal works from: (A) BENNETT & RANDALL, Greensburg, Penn. (awarded contract); (B) George C. Souder, Lancaster, Penn.; (C) Cantrell Construction Co., Philadelphia; (D) Pitt Construction Co., Pittsburgh; (E) C. R. Simpson, New York, N. Y.; (F) T. L. Eyre, Philadelphia; (G) D. C. Sarber, New York, N. Y.; (H) Suburban Engineering Co., New York, N. Y.; (I) F. B. Bassman & Co., Baltimore, Md.; (J) A. B. Kraft, York; (K) F. J. Boas, Philadelphia; (L) Slack & Slack Co., Baltimore, Md.; (M) Kelley-McFeeley Co., Camden, N. J.; (N) Heyman & Goodman Co., Jersey City, N. J.; (O) Engineer's Estimate. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
Protective works and royalties, lump sum	1000.00	1600.00	1620.00	5000.00	2095.00	2000.00	1800.00	1800.00	4300.00	1800.00	1560.00	1128.00	1960.00	3900.00	4500.00
9500 cu.yd. earth excavation and disposal	0.45	0.66	0.60	0.90	0.52	0.96	0.64	0.52	0.82	0.30	0.80	1.50	0.61	1.50	0.60
6000 cu.yd. rolling embankment	0.18	0.12	0.25	0.15	0.06	0.08	0.15	0.25	0.15	0.15	0.20	0.50	0.14	0.50	0.20
5000 cu.yd. rock excavation	1.50	1.40	2.10	1.40	2.00	1.92	1.85	2.00	1.90	3.50	2.85	3.00	2.85	3.00	2.00
500 cu.yd. rip rap	1.25	0.52	0.75	1.25	1.50	0.84	0.50	2.25	0.95	2.25	1.50	1.00	0.77	0.50	0.20
1900 cu.yd. concrete	9.00	7.25	8.00	9.00	8.60	7.20	9.75	8.50	8.90	8.50	9.80	7.50	9.64	15.00	11.00
150,000 lb. reinforcing steel	0.03	0.028	0.03	0.02½	0.04	0.03½	0.036	0.02½	0.03	0.04	0.04	0.03	0.03½	0.04½	0.03½
38 tons cast iron B & S pipe	33.00	35.00	42.00	40.00	50.00	40.00	31.00	50.00	48.00	60.00	50.00	40.00	45.00	70.00	30.00
18 tons cast iron B & S specials	65.00	77.00	76.00	80.00	75.00	86.00	80.00	80.00	96.00	65.00	80.00	80.00	86.00	100.00	65.00
3 tons cast iron flanged pipe and specials	60.00	100.00	57.00	100.00	110.00	127.00	100.00	90.00	150.00	185.00	80.00	80.00	99.00	130.00	100.00
Baffles including supports, lump sum	1400.00	3000.00	1100.00	3500.00	5182.00	2564.00	3200.00	5750.00	2275.00	3526.00	2539.00	1385.00	3700.00	4150.00	4040.00
20,000 lb. miscellaneous c.i., w.i. and steel	0.05	0.07	0.06	0.05	0.06	0.06	0.06	0.06	0.10½	0.04½	0.04	0.05½	0.10	0.13	0.06
750 lin.ft. railings	1.00	0.80	0.59	0.50	0.70	1.44	1.00	1.20	1.10	0.80	0.75	1.25	1.60	0.90	0.80
Swing gates and stands and slide gates, lump sum	1350.00	1200.00	1240.00	1100.00	1200.00	936.00	1350.00	1600.00	1530.00	1260.00	1055.00	1200.00	1380.00	1600.00	1000.00
3 each, 4-in. gate valves in place	8.00	11.00	8.85	12.00	9.00	10.00	8.00	13.00	12.00	9.00	8.00	7.75	10.50	10.00	10.00
1 each, 6-in. gate valves in place	15.00	16.00	14.35	16.00	16.00	17.00	14.90	18.00	18.00	15.00	12.00	11.00	15.60	20.00	15.00
14 each, 8-in. gate valves in place	20.00	16.00	21.00	22.00	20.00	26.00	20.00	21.50	23.00	25.00	17.00	16.25	21.00	25.00	20.00
3 each, hydrants	25.00	31.00	29.00	27.00	28.00	37.00	27.00	30.00	30.00	25.00	25.80	40.00	28.80	25.00	30.00
Sluice gates and tide gates lump sum	1240.00	1380.00	1320.00	1200.00	1423.00	972.00	1400.00	1530.00	1465.00	1347.00	1245.00	490.00	1566.00	1740.00	1600.00
Water jet equipment for settling tanks, lump sum	340.00	530.00	506.00	600.00	125.00	594.00	500.00	600.00	700.00	550.00	600.00	175.00	725.00	810.00	1000.00
1 M ft. b.m. lumber	50.00	120.00	55.00	75.00	100.00	84.00	100.00	100.00	65.00	30.00	80.00	55.00	75.00	100.00	100.00
600 cu.yd. crushed stone on sludge beds	1.25	1.15	1.35	1.00	1.00	1.50	2.00	1.50	1.50	12.10	2.00	2.00	2.60	2.00	1.50
500 sq.yd. macadam	0.50	0.33	0.75	0.40	0.50	0.84	1.00	1.00	0.45	0.45	0.50	0.90	0.52	0.40	0.50
500 lin.ft. 6-in. vitrified pipe	0.25	0.22	0.18	0.20	0.22	0.18	0.20	0.24	0.23	0.20	0.25	0.13	0.35	0.30	0.30
200 lin.ft. 8-in. vitrified pipe	0.30	0.25	0.24	0.25	0.26	0.30	0.26	0.30	0.27	0.25	0.30	0.20	0.45	0.30	0.40
300 lin.ft. 12-in. vitrified pipe	0.45	0.46	0.40	0.40	0.38	0.58	0.44	0.45	0.38	0.35	0.50	0.35	0.81	0.50	0.60
Venturi meter, lump sum	1125.00	1320.00	1173.00	1200.00	1350.00	1410.00	1300.00	1300.00	1450.00	1100.00	1090.00	1200.00	1295.00	1470.00	1200.00
Chlorinating apparatus, lump sum	2100.00	2560.00	2312.00	2300.00	2490.00	2500.00	2520.00	2500.00	2365.00	2200.00	2100.00	2550.00	2515.00	2000.00	1000.00
Pumping station superstructure, lump sum	4800.00	4870.00	4790.00	4200.00	4500.00	6695.00	5500.00	6000.00	5000.00	5000.00	4540.00	5250.00	6200.00	7500.00	5000.00
Extended totals	$54,553	$55,740	$58,533	$63,246	$63,693	$64,200	$65,326	$66,893	$68,026	$69,000	$70,307	$72,392	$73,387	$101,38	$68,975

Pittsburgh, Penn.—E. B. Lee, Arch., has prepared plans for the construction of additions and alterations to the Pittsburgh Hospital at Frankstown Ave. and Washington Blvd. The work consists of a seven-story, 50x100-ft. administration building, a five-story, 40x75-ft. chapel, and alterations to the present buildings. Estimated cost, $125,000.

+Pittsburgh, Penn.—The contract for the construction of the School of Applied Design at the Carnegie Institute of Technology, Shenley Pk., has been awarded to A. S. WILSON CO., Third Ave. Estimated cost, $300,000. Noted Mar. 11.

Pittsburgh, Penn.—Bids will be received about May 1 by C. L. Wooldridge, Supt. of Bldgs., Bd. of Education, Fulton Bldg., for the construction of the South Hills High School at Ruth and Secane St., Mt. Washington. Estimated cost, $265,000. Noted Jan. 7.

+Pottsville, Penn.—The contract for the construction of a one-story building for the Pennsylvania National Bank has been awarded to METZGER & FISHER, Denckla Bldg., Philadelphia. Estimated cost, $50,000. Noted Mar. 25.

Towanda, Penn.—(Official)—Bids will be received until 8 p.m., Apr. 27, by W. M. Matchett, Secy. Bd. of Education for the construction of a high school. Pierce & Bickford, Elmira, N. Y., is Arch. Noted Dec. 24.

+Warren, Penn.—(Correction)—(Official)—The contract for the construction of a library has been awarded to the HENRY SHENK CO., Erie, and not to the George A. Fuller Co. as reported in the issue of Apr. 8.

+Washington, Penn.—The contract for the construction of a Masonic Temple on West Wheeling St. has been awarded to JACOB U. BUMGARNER. Estimated cost, $50,000.

Baltimore, Md.—Plans are being prepared by Joseph Evans Sperry, Arch., 409 Calvert Bldg., for the construction of a Y. W. C. A. building. Estimated cost, $200,000. Ada P. Janney, Park Ave. and Franklin St., is Secy.

Petersburg, Va.—The Petersburg Investment Co., Mechanics' Bldg., contemplates the construction of a seven-story hotel. Estimated cost, $135,000. M. C. Jackson is Pres. and R. A. Munden is Assoc. Arch.

Parkersburg, W. Va.—The city contemplates the construction of a two-story hospital. Estimated cost, $75,000. Frank Good is City Clk.

Parkersburg, W. Va.—Bids will soon be received by George D. Heaton, Clk. of Bd. of Education, for the construction of a two-story, 190x250-ft. high school. Estimated cost, $225,000. Frank L. Packard, 1212 Hayden Bldg., Columbus, Ohio, is Arch.

Knoxville, Tenn.—Bids will be received until Apr. 22 by Miller, Fullenwider & Dowling, Arch., 6 North Michigan Ave., Chicago, Ill., and by Alfred B. Baumann, Assoc. Arch., Knoxville, for the construction of a two-story building for the Lawson-McGhee Estate. Estimated cost, $65,000. Noted Apr. 17, 1913, May 14, 1914 and Apr. 1, 1915.

Memphis, Tenn.—The Methodists of Tennessee, Arkansas and Mississippi plan to construct a hospital on Lamar Ave. Estimated cost, $180,000.

Nashville, Tenn.—(Official)—The date for receiving bids for the construction of a laboratory building for the Vanderbilt University has been extended from Apr. 13 to 2 p.m., Apr. 20. Samuel Hannaford & Sons, Arch., Hulbert Blk., Cincinnati, Ohio, will receive the bids. Noted Dec. 17 and 31, Mar. 25 and Apr. 8.

Lexington, Ky.—The Chesapeake & Ohio Ry. plans to construct terminals at Lexington to cost about $100,000. Construction work will be done by the company's own forces. F. I. Cabell, Richmond, Va., is Ch. Engr.

Mt. Sterling, Ky.—Bids will be received about May 1 by Henry Clay McKee for the construction of a five-story, 70x120-ft. hotel. Estimated cost, $85,000. Noted May 21, Aug. 6 and 27 and Nov. 12.

Canton, Ohio—The Board of Education contemplates the construction of a two-story school. Estimated cost, $60,000. W. C. Lane, Central High School, is Clk.

Canton, Ohio—Plans are being prepared by Edmund Herrmann, Arch., Central Savings Bank Bldg., for the construction of a four-story, 50x53-ft. building for the Young Men's Club. Estimated cost, $50,000.

Cincinnati, Ohio—Joseph G. Steinkamp & Bro., Arch., has prepared plans for the construction of a $200,000 dormitory and faculty building for St. Xavier's College. The Trustees of the college also contemplate the construction of a $50,000 gymnasium. William C. Culkins, Oscar J. Dreyer and Walter S. Schmidt are members of Bldg. Com.

+Cleveland, Ohio—The contract for the construction of a commercial and theater building at Denison Ave. and West 25th St. for W. G. Marshall, of the Marshall Drug Co., has been awarded to the UHL-JASTER CO., 1900 Euclid Ave. Estimated cost, $65,000. Noted Mar. 25.

Cleveland, Ohio—Bids will be received until noon, May 10, by the Clerk of the Board of Education, Rockwell Ave. and East Sixth St., for the construction and alteration work at the Dunham, Sibley and St. Clair Schools. Frank G. Hogan is Dir. of Schools.

Cleveland, Ohio—Plans have been prepared by George B. Post & Sons, Arch., 1111 Schofield Bldg., for the construction of a theater and commercial building on Euclid Ave., near East 12th St., for E. E. Mandelbaum. Noted Mar. 4.

Cleveland, Ohio—Preliminary plans are being prepared by George B. Post & Sons, Arch., 101 Park Ave., New York, N. Y., for the construction of a hotel and motion picture theater for the Stillman Amusement Co., 1951 East 57th St. Estimated cost, $700,000. Benedict Crowell is Pres.

+Findlay, Ohio—The contract for the construction of a building for the B. P. O. E., has been awarded to J. J. BOLINGER, Toledo, at $56,167. Noted Mar. 11.

Findlay, Ohio—An election will be held Apr. 27 for the purpose of issuing $100,000, in bonds, the proceeds to be used to reconstruct the county infirmary buildings.

Lakewood, Ohio—The Board of Education contemplates the construction of a three-story high school. Estimated cost, $250,000. The citizens will vote on a bond issue in November. P. T. Harrold is Clk. Bd. of Education.

Massillon, Ohio—Bids are being received by Guy Tilden & Son, Arch., 34 Schaefer Bldg., Canton, for the construction of a two-story, 66x150-ft. theater and store building for John McLain, 929 Cleveland Ave. S. W., Canton. Estimated cost, $60,000.

Newburg, Ohio—(Cleveland post office)—Plans are being prepared by William J. Carter, Engr., Rockefeller Bldg., Cleveland, for the construction of a building on Miles Park Ave., for the Newburg Masonic Temple Co. Estimated cost, $50,000.

Niles, Ohio—Plans have been prepared by McKim, Mead & White, Arch., 101 Park Ave., New York, N. Y., for the construction of a building for the National McKinley Birthplace Memorial Association. Estimated cost, $500,000. John C. Milburn, New York, N. Y., and Joseph G. Butler, Youngstown, are interested.

Toledo, Ohio—Preliminary plans are being prepared by Edwin M. Gee, Arch., Board of Education Bldg., for the construction of a three-story grade school. Estimated cost, $175,000. George L. McKesson is Dir. of Schools. Noted Mar. 18.

Youngstown, Ohio—Bids will be received until noon, Apr. 27, by W. Ashbaugh, Dir. of Schools, 20 Wood St., for the construction of a two-story school. Estimated cost, $80,000. C. F. Owsley, Mahoning Bank Bldg., is Arch.

Youngstown, Ohio—Bids will be received until noon, Apr. 27, by W. Ashbaugh, Dir. of Schools, 20 Wood St., for the construction of a two-story, 90x250-ft. school. Estimated cost, $130,000. Stanley & Scheible, 1301 Wick Bldg., in Arch.

Jasper, Ind.—Plans are being prepared by V. P. Collins and Frank E. Durlauf, Assoc. Arch., 624 Paul Jones Bldg., Louisville, Ky., for the construction of a parochial school for St. Joseph's Church. Estimated cost, $60,000.

Chicago, Ill.—(Official)—The citizens voted on Apr. 6 in favor of issuing $4,000,000 in bonds for municipal construction work, the proceeds to be used as follows: $500,000 for a hospital for contagious cases of disease; $250,000 for a farm colony and shelter; $1,199,000 for buildings for the Police Department; $60,000 for a dormitory at the city school and farm for delinquent boys.

+Moline, Ill.—The contract for the construction of a three-story hospital for the Augustana Swedish Lutheran Hospital, 1014 Fifth Ave., has been awarded to the HORST CONSTRUCTION CO., Horst Bldg., Rock Island. Estimated cost, $60,000.

Rock Island, Ill.—Joseph Hopp, 179 West Washington St., Chicago, plans to construct a two-story motion picture theater at Rock Island. Estimated cost, $50,000.

Kenosha, Wis.—The city has voted $100,000 in bonds, the proceeds to be used for the construction of new school.

Racine, Wis.—The lowest bid received for the construction of a $90,000 school at West Racine was submitted by Nelson & Co., Racine. Noted Oct. 29, Jan. 14 and Feb. 4.

Superior, Wis.—Plans have been prepared by John O. Bach, Arch., for the construction of a building for the Superior Catholic Orphanage. Estimated cost, $100,000.

Cedar Rapids, Iowa—The Western Grocery Co. plans to construct an office building. Estimated cost, $75,000.

Ft. Madison, Iowa—An election will soon be held to vote on the question of issuing $98,000 in bonds for the construction of a high school. R. M. Markgraf, Arch., 413 Ridge Bldg., Kansas City, Mo., has prepared plans.

+Duluth, Minn.—(Official)—JACOBSON BROS., Columbia Bldg., at $115,414, has been awarded the contract for the construction of the Lincoln High School. F. G. German, 410 Exchange Bldg., is Arch. Noted Dec. 31 and Mar. 18.

+Minneapolis, Minn.—J. E. PILGRIM has been awarded the contracts for the construction of the following grade schools: Thomas Lowry School, at $116,000; Robert Fulton School, at $88,000; Clara Barton School, at $87,000. Noted Dec. 25, 1913, Nov. 5 and 19, 1914.

+Marysville, Kan.—(Official)—The contract for the construction of a school has been awarded to W. J. ASSENMACHER CO., Lincoln, Neb., at $41,212. N. P. Nielson, Topeka, is Arch. Noted Mar. 18 and Apr. 1.

Hastings, Neb.—The citizens will hold an election Apr. 20 to vote on the question of issuing $130,000 in bonds. The proceeds will be used for the construction and remodeling of schools in Hastings. C. M. Barr is Secy. Bd. of Education.

+Omaha, Neb.—The contract for the construction of the Hotel Edwards for the Independent Realty Co., 315 Karbach Bldg., has been awarded to ALEX BECK, 204 State Bank Bldg. Estimated cost, $100,000. Noted Apr. 1.

Omaha, Neb.—Graham & Burnham, Arch., Chicago, Ill., is preparing plans for the construction of an eight-story building for the First National Bank.

+Kansas City, Mo.—The FOGEL CONSTRUCTION CO. has been awarded the contract at about $100,000, for constructing the Wesley Hospital. Keene & Simpson is Arch.

Kirksville, Mo.—The Commercial Club contemplates the construction of a hotel. Estimated cost, $75,000. W. I. Pool is interested.

+Galveston, Tex.—The contract for the construction of additions and improvements to the Ball High School, has been awarded to J. W. ZEMPTER, at $53,266. A. J. Bellis, is Arch.

Okmulgee, Okla.—Smith, Rea & Lovitt, Arch., 602 Finance Bldg., Kansas City, Mo., is preparing plans for the construction of a $100,000 high school. Judge Swan is Pres. Bd. of Education.

Denver, Colo.—Robert Willison, Arch., is preparing plans for the construction of a theater on Curtis St., for the Strand Theater Co. Estimated cost, $175,000.

+Greeley, Colo.—The contract for the construction of a three-story courthouse has been awarded to SEERIE & VARNUM, Denver, at $138,575. Noted Jan. 21.

Ogden, Utah—Ogden City and Weber County will construct a building on 25th St. between Washington and Hudson Ave., to be used as offices by the city and county. Estimated cost, between $150,000 and $200,000.

North Yakima, Wash.—N. A. Henderson plans to construct an apartment house on Naches Ave. Estimated cost, $100,000.

Seattle, Wash.—Work will be started about May 1 on the the construction of a 110x120-ft. motion picture theater at Fifth and Pike St., for C. D. Stimpson. Estimated cost, $350,000. Noted Mar. 25.

Spokane, Wash.—The Mohawk Bldg. was recently damaged by fire with a loss of $200,000. The four upper floors will be rebuilt.

Walla Walla, Wash.—Bids will be received until 10 a.m., May 5, by the County Commissioners of Walla Walla County for the construction of a three-story, 81x139-ft. courthouse. Estimated cost, $150,000. C. F. Dement is County Audr. Noted Jan. 7 and 28, and Mar. 11.

Portland, Ore.—The Council has decided to construct a public auditorium on Second and Clay St. Estimated cost, $550,000. J. H. Freelander, New York, N. Y., is Arch.

Salem, Ore.—Plans are being prepared for the construction of an apartment house for Charles McNary and George Rodgers. The estimated cost is $50,000.

Berkeley, Calif.—Bids will be received until 10 a.m., Apr. 23, by W. J. Seaborn, City Clk., for the construction of a school at Oregon and McGee St. Noted Mar. 4.

Huntington Beach, Calif.—Plans are being prepared by John C. Smith, Arch., 325 Hellman Bldg., Los Angeles, for the construction of a one-story, 110x274-ft. school. Estimated cost, $40,000. Noted Mar. 11.

Long Beach, Calif.—An election will be held May 10 to vote on issuing $50,000 in bonds, the proceeds to be used for the construction of a general hospital.

Los Angeles, Calif.—(Official)—Bids will be received until Apr. 22 by the Board of Education for the construction of the 14th St. School. Estimated cost, $105,000. C. H. Russell, 1114 Story Bldg., is Arch. Noted Mar. 18.

+Petaluma, Calif.—The School Board has awarded the contract for the construction of a school to WARD & GOODWIN, San Francisco, at $66,487. Noted Nov. 19.

Sacramento, Calif.—Carl Werner, Arch., San Francisco, is preparing plans for the construction of a four-story lodge building for the Masonic Order. Estimated cost, $100,000.

+San Francisco, Calif.—The Board of Public Works has awarded a contract for the ornamental iron and bronze work for the City Hall to the RUDGAR MERLE CO., at $93,000. Noted Oct. 1 and Nov. 12.

Stockton, Calif.—Contracts will soon be awarded by the School Board for the construction of a two-story school on the Lower Sacramento Rd. Estimated cost, $60,000.

Calgary, Alta.—Bids are being received by the Department of Public Works, Ottawa, Ont., for the construction of armories. Estimated cost, $350,000. R. C. Desrochers is Secy. of Bd.

COLUMBIA HIGHWAY, MITCHELL POINT SECTION

Hood River County, Oregon

+Bids were received Mar. 17 by the Oregon State Highway Commission, Henry L. Bowlby, Engr., for the construction of the Mitchell Point section of the Pacific Highway in Hood River County, from: (A) STANDIFER-CLARKSON CO., Portland (awarded contract); (B) Giebish & Joplin, Portland; (C) Porter & Conley, Inc., and E. Wren, Portland; (D) A. Guthrie & Co., Inc., Portland; (E) Carlson, Chindahl & Co., Spokane, Wash.; (F) Elliott Contracting Co., Portland; (G) Jeffrey & Bufton, Portland; (H) Robert L. Ringer, Portland; (I) Clarence Hoard, Victoria, B. C.; (J) Grant Smith & Co., Spokane; (K) Copenhagen Bros., Portland; (L) Taylor & Robbins, Portland; (M) Transfer & Livery Co., Inc., Hood River, Ore.; (N) Cowlitz Bridge Co., Portland; (O) Ryan & Beer, Portland. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Embankment haul to 300 ft., per cu.yd.	$0.24	$0.31	$0.32	$0.20	$0.25	$0.28	$0.33	$0.82	$0.30	$0.00	$0.30	$0.30	$0.30	$0.30	$0.26
Embankment haul 300 to 1000 ft., per cu.yd.	0.27½	0.45	0.36	0.23	0.30	0.35	0.40	0.90	0.30	.....	0.31	0.44	0.33	0.40	0.30
Earth excavation haul to 300 ft., per cu.yd.	0.24	0.29	0.32	0.20	0.25	0.28	0.30	0.32	0.30	0.24	0.30	0.30	0.30	0.30	0.26
Earth excavation haul 300 to 1000 ft., per cu.yd.	0.27½	0.34	0.36	0.23	0.30	0.35	0.36	0.40	0.30	0.28	0.32	0.44	0.33	0.30	0.30
Hard pan haul to 1000 ft., per cu.yd.	0.45	0.45	0.40	0.35	0.45	0.40	0.45	0.53	0.60	.....	0.35	0.45	0.50	0.40	0.35
1500 cu.yd. loose rock haul to 1000 ft.	0.47	0.49	0.40	0.45	0.55	0.50	0.50	0.55	0.60	0.50	0.40	0.55	0.48	0.50	0.35
8000 cu.yd. shell rock haul to 1000 ft.	0.30	0.44	0.40	0.60	0.40	0.40	0.50	0.50	0.40	0.42	0.35	0.50	0.45	0.50	0.35
12,000 cu.yd. hard rock haul to 3000 ft.	0.77½	0.99	0.90	0.82	1.00	0.89	1.20	0.88	1.00	1.15	0.75	1.00	0.84	0.80	0.74
Hard rock haul 300 to 1000 ft., per cu.yd.	0.81	1.10	0.90	0.85	1.00	0.95	1.30	0.95	1.00	1.20	0.80	1.10	0.87	0.80	0.78
Rip-rap, loose haul to 1000 ft., per cu.yd.	0.75	0.65	1.00	1.50	1.25	1.50	1.00	1.10	2.00	.....	.....	1.00	1.00	0.80	1.25
Rip-rap, hand placed haul to 1000 ft.	1.50	1.37	2.00	2.50	2.00	2.75	1.50	1.50	3.00	.....	.....	1.75	1.75	6.00	2.50
20,000 cu.yd. overhaul on above for each 100 ft.	0.01	0.02	0.02	0.01½	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.03	0.01½	0.02	0.02½
420 lin.ft. tunnel, complete	33.00	49.50	42.00	35.00	35.00	40.00	46.00	40.00	50.00	39.00	38.00	55.00	39.90	45.00	38.00
45 lin.ft. tunnel windows	30.00	52.25	45.00	35.00	35.00	33.00	46.00	40.00	40.00	45.00	37.00	50.00	45.00	40.00	43.00
Wrought iron and spikes, per lb.	0.08	0.06½	0.06	0.05	0.05	0.07	0.07	0.07	0.10	0.06	0.06	0.07	0.06	0.05	0.05
Cast iron, per lb.	0.07	0.04½	0.10	0.05	0.05	0.07	0.07	0.05	0.10	0.06	.....	0.07	0.05	0.05	0.05
44 M b.m. creosoted timber and plank	47.50	33.00	50.00	45.00	48.00	45.00	60.00	44.00	30.00	49.00	44.00	50.00	58.00	45.00	47.00
4-in. tile drains in place, per lin.ft.	0.15	0.09	0.20	0.20	0.06	0.10	0.20	0.12	0.40	.....	0.20	0.25	0.15	0.20	0.25
50 lin.ft. 12-in. corrugated iron pipe	2.00	1.10	1.00	1.05	1.05	1.25	1.50	1.00	3.00	1.50	1.15	1.20	1.50	0.80	1.30
50 lin.ft. 18-in. corrugated iron pipe	2.50	1.48	1.50	1.45	1.35	1.50	2.50	1.45	3.50	2.50	1.75	1.80	1.75	1.50	1.70
50 lin.ft. 24-in. corrugated iron pipe	3.00	1.95	2.25	2.00	2.75	2.00	3.00	2.00	4.00	2.80	2.25	2.50	2.25	2.50	2.20
50 lin.ft. 12-in. concrete pipe in place	1.50	0.75	1.40	0.75	0.65	1.50	1.00	0.90	2.00	1.65	1.25	0.80	1.00	1.00	1.50
50 lin.ft. 18-in. concrete pipe in place	2.00	1.40	2.15	1.25	1.00	1.75	1.25	1.75	3.00	2.05	2.00	1.40	1.35	2.00	2.00
50 lin.ft. 24-in. concrete pipe in place	2.50	2.40	2.25	1.95	1.60	2.25	2.50	2.25	4.00	2.70	2.50	2.50	2.00	3.00	2.50
6-in. vitrified tile in place, per lin.ft.	0.35	0.30	0.45	0.33	0.20	0.50	0.40	0.30	0.50	.....	0.35	0.50	0.35	0.50	0.35
8-in. vitrified tile in place, per lin.ft.	0.50	0 42	0.60	0.41	0.25	0.75	0.60	0.50	0.75	.....	0.50	0.60	0.45	0.80	0.45
12-in. vitrified tile in place, per lin.ft.	1.05	0.75	0.75	0.65	0.40	1.50	1.00	0.80	1.00	.....	0.65	0.80	0.65	1.20	1.00
18-in. vitrified tile in place, per lin.ft.	1.50	1.40	1.40	1.10	0.85	1.75	1.75	1.70	1.50	.....	1.25	1.40	1.25	2.00	1.50
24-in. vitrified tile in place, per lin.ft.	2.00	2.25	2.10	1.75	1.75	2.25	2.50	2.20	2.00	.....	2.00	2.50	2.00	3.00	2.50
30 sq.yd. rubble masonry (dry), 1 to 6 ft. high	2.25	1.90	2.50	1.50	3.00	5.00	2.50	4.00	3.00	4.00	1.40	2.75	1.65	7.00	2.00
30 sq.yd. rubble masonry (dry), 6 to 12 ft. high	2.75	2.40	3.00	3.00	3.00	9.60	3.00	4.00	4.00	4.00	2.00	3.00	2.25	12.00	2.75
20 sq.yd. rubble masonry (dry), 12 to 18 ft. high	3.25	3.30	4.00	4.00	3.00	16.60	3.50	4.00	5.00	4.00	3.00	3.50	3.75	20.00	3.50
20 sq.yd. rubble masonry (dry), 18 to 24 ft. high	3.75	3.75	5.00	5.50	3.00	23.40	4.00	5.00	6.00	4.00	5.00	4.00	5.00	30.00	4.25
Rubble masonry (cement mortar), per cu.yd.	10.00	4.25	5.00	6.00	8.00	8.00	10.00	7.00	9.00	.....	.....	8.00	6.00	20.00	5.50
275 cu.yd. concrete, Class "A"	15.00	24.04	15.00	22.40	16.50	16.00	20.00	19.80	20.00	12.00	14.00	18.50	14.50	9.00	26.00
Concrete, Class "B," per cu.yd.	.....	23.50	15.00	20.00	.....	.....	21.00	19.80	18.00	.....	.....	18.00	14.00	8.00	25.00
Concrete, Class "C," per cu.yd.	.....	22.50	12.00	15.00	.....	.....	20.00	19.80	16.00	.....	.....	17.00	13.00	8.00	24.00
480 cwt. reinforcing steel in place	3.50	4.40	4.00	3.50	3.75	5.00	6.00	4.20	7.00	5.00	5.00	5.00	5.00	2.50	4.00
380 lin.ft. railing on viaduct	1.50	2.20	1.50	1.00	1.40	2.00	2.50	1.25	2.00	8.00	1.00	1.50	1.00	2.00	1.75
3 acres light clearing	90.00	44.00	40.00	100.00	40.00	50.00	150.00	100.00	100.00	35.00	100.00	70.00	50.00	75.00	50.00
60 sq.rods grubbing	2.00	0.83	1.00	2.00	2.00	1.50	1.50	1.50	3.00	1.00	1.50	1.50	1.00	5.00	2.00
Extended totals	$40,343	$54,428	$47,463	$45,048	$45,077	$47,728	$57,252	$48,884	$54,083	$50,840	$42,722	$57,856	$46,473	$46,908	$45,927

Contracts to Be Let

Bids received until May 4, 1915.

Bridge Repairs

Northampton, Mass.

Sealed bids for reconstructing two piers and also for repairing the superstructure of the bridge across the Connecticut River between Northampton and Hadley, Mass., will be received by the Hampshire County Commissioners at their office, Hampshire County Court House, Northampton, Mass., until twelve o'clock M., on May 4, 1915, and at that time and place will be publicly opened and read.

No bid will be received unless accompanied by a properly certified check for five hundred ($500.00) dollars, payable to the order of "Treasurer of Hampshire County." Each check will be returned to the bidder unless forfeited, as hereinafter provided. All such deposits, except that of the successful bidders, will be returned to the persons making the same within ten days after the contract is awarded.

The contract must be signed and the bond furnished within six days (Sunday excepted) after the date of the notification by the Commission of the acceptance of the proposal and the readiness of the contract for signature, and in case of the failure of the bidder after such notification to execute the contract and furnish the bond within such time, the proposal will be considered abandoned, and the certified check accompanying the proposal shall be forfeited to the County.

Plans can be seen at the office of the Commission, Northampton, Mass., or at the office of the Engineers, 79 Milk Street, Boston, Mass.

The Commission reserves the right to reject any and all bids and reserves the right to award the contract as it deems for the best interest of Hampshire County.

FRANK A. BROOKS, Chairman,
FRANK M. SIBLEY,
CLARENCE E. HODGKINS,
Hampshire County Commissioners

J. R. WORCESTER & CO., Engineers,
79 Milk Street, Boston, Mass.

Bids received until Apr. 26, 1915.

Bituminous Material

Albany, N. Y.

State of New York—Office of the State Commission of Highways, Albany, N. Y.—Pursuant to provisions of Chapter 30, Laws of 1909 as amended by Chapter 646, Laws of 1911, and Chapter 80, Laws of 1913, sealed proposals will be received by the undersigned at the office of the State Commission of Highways, 55 Lancaster Street, Albany, N. Y., at 1 o'clock P.M. on Monday, April 26, 1915, for furnishing and delivering bituminous materials "A" and "T" in the different counties comprising Divisions Nos. 1, 2, 3, 4, 5, 6, 7, 8 and 9. Tables and specifications showing the approximate quantities may be seen and obtained at the office of the Commission in Albany, N. Y. The special attention of bidders is called to the fact that separate proposals will be received for each Division for furnishing and delivering bituminous materials "A" and "T" as designated in detail by divisions on tables prepared for that purpose.

Each proposal must be accompanied by a draft or certified check issued by a National or State bank in good credit within the State and payable at sight to the order of the State Commission of Highways, for an amount equal to at least 5 per centum of the amount of the proposal which such draft or check accompanies. This draft or check will be held by the Commission until the contract is executed and the bond is filed.

The successful bidder on each proposal will be required to give a bond for 50 per centum of the amount of the contract, such bond to be executed by a Surety Company to be approved by the Commission. The bond is for the purpose of insuring the delivery of the bituminous material as called for by the Commission.

The right is reserved to reject any or all bids.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

Bids received until Apr. 20, 1915.

Trenton-Allentown Turnpike

County of Mercer, State of New Jersey.

Sealed proposals will be received by the Board of Chosen Freeholders of the County of Mercer, at their place of meeting in the Court House, in the City of Trenton, County of Mercer, N. J., Tuesday, April 20, 1915, at 2:30 P.M., and then opened:

For furnishing all material, tools, machinery and labor necessary for the efficient and proper rolling, spreading and laying of a bituminous concrete surface, and all other work incidental thereto, on a certain macadam highway in Mercer County; known as the Trenton-Allentown Turnpike, beginning at or near Bromley Inn and extending to Mercerville.

As a guarantee of good faith and to secure the County of Mercer from any loss by failure to comply with the terms of said bid, all bidders shall accompany their bid with a certified check for $1000, payable to the order of Joseph H. Black, County Collector, or a like amount in cash. Upon the failure by the contractor to enter into an agreement in writing to perform the work according to the specifications, said certified check or cash shall be forfeited and considered as liquidated damages.

All bids containing proposals must be enclosed in sealed envelopes addressed to the Board of Chosen Freeholders of the County of Mercer, N. J., and bearing on the outside the name and address of the bidder.

No proposal will be received or opened until these conditions are complied with on the part of the bidder.

The check or cash of the successful bidder will be held until the contract is executed together with a bond approved by the Board of Chosen Freeholders or its committee in an amount not to exceed the full amount of the bid, conditioned for the faithful performance of the contract in accordance with the specifications.

Specifications are on file at the office of Theodore Tobish, County Engineer, Court House, Trenton, New Jersey, and may be there examined.

The form of proposal on file with said Engineer must be the form used in making bids.

The right is reserved to reject any or all bids or to waive any defect or informality in any bid should it be to the interest of the county to do so.

JOHN J. POWER, Director.

Bids received until May 1, 1915.

Sewers and Water-Works

Laurel, Md.

SEALED PROPOSALS, addressed to George W. Waters, Jr., Mayor, Laurel, Md., and marked "Sewer and Water Bids," will be received until two P.M., May 1st, 1915, for furnishing materials and constructing a complete system of sanitary sewers, extensions to water mains and other water-works improvements, comprising the following:

Approximately eight and seven-tenths miles of Sewers, 8-inch to 15-inch in diameter.
Approximately three and one-quarter miles of Water Mains, 2-inch to 8-inch in diameter.
Sewage Disposal Plant.
Compressed Air Sewage Ejectors.
Rapid Sand Filter Plant for Water-works, comprising Building and Equipment.
Motor Driven Pumping Machinery.

Bids will be received for the entire work or for any portion thereof.

Plans and specifications may be seen at the Collector's office, Laurel, Md., or at the office of Harry Stevens, Consulting Engineer, Union Trust Building, Washington, D. C., or may be obtained from the Engineer for Five ($5.00) Dollars per set.

Right is reserved to reject any or all bids or to accept any bid for the whole or any portion of the work.

For the information of prospective bidders, the Town has the necessary funds for the above work deposited in the bank.

GEORGE W. WATERS, JR., Mayor.

HARRY STEVENS, Engineer.